

**DATE:** February 2, 2009

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**RE:** 80 Hastings, Bridgeport, CT Phase III ESA Report

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*L Hellerich*

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Project Manager

# **PHASE III ENVIRONMENTAL SITE ASSESSMENT REPORT**

**FORMER PROGRESSIVE PLATING  
TECHNOLOGIES  
aka: AUTOMATIC PLATING  
80 Hastings Street  
Bridgeport, Connecticut**

Prepared for:

City of Bridgeport Office of Planning and Economic Development  
999 Broad Street – 2<sup>nd</sup> Floor  
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## Executive Summary

AECOM (formerly Metcalf & Eddy (M&E)) conducted a Phase III Environmental Site Investigation (Phase III) for the Former Progressive Plating Technologies (a.k.a. Automatic Plating) facility in Bridgeport, Connecticut. The work was conducted under an EPA Brownfields Assessment Grant awarded to the City and was performed to assist the City in its effort to facilitate redevelopment of the property. The Phase III investigated the following recognized environmental conditions (RECs):

- REC 2: Soils within the parking lot area were further evaluated for the extent of contamination and potential remediation options.
- REC 3: On-site groundwater was further evaluated for the potential of metals and petroleum contamination from historic metal plating operations and/or seepage from floor drains and compromised sub-grade structures.
- REC 7: The area of the former transformers was evaluated for possible polychlorinated biphenyl (PCB) contamination.
- REC 8: Toxicity characteristic leachate procedure (TCLP) analysis of potential lead-based paint materials was conducted.
- REC 9: Additional sampling of analysis of potential asbestos-containing materials will be performed.
- REC 12: Additional characterization of the vault structure was performed to further evaluate the extent of the total petroleum hydrocarbon (TPH) and lead impacts.
- REC 15: Another loading dock was evaluated for the presence of contaminants using a soil boring.
- REC 16: The chemical storage area on the southeast corner of the building was inaccessible to the drill rig due to large, unmovable containers blocking the entrance. A soil boring was performed just outside the entrance to the storage room to evaluate potential sources of contamination.
- REC 17: A visual inspection and soil boring of the tool room was performed to investigate any potential releases.

The Phase III involved a variety of pre-field and field activities. Pre-field work included: preparation of United States Environmental Protection Agency approved work plans/quality assurance project plans, development of a site-specific health & safety plan, and procurement and coordination with subcontractors. Field work included: 29 soil borings and four monitoring well installations (Glacier Drilling, LLC); a survey of asbestos containing materials and lead-based paint quantities, including analytical sampling of each parameter (Hygenix); analytical laboratory services of 54 soil samples, 1 PCB wipe sample, and one groundwater sample (Con-Test Analytical Laboratory); and surveying services for locations of borings, wells, and major building features (Nafis and Young Engineers).

The following analyses were conducted for soil samples: polychlorinated biphenyls (PCBs); volatile organic carbons (VOCs); extractable total petroleum hydrocarbons (ETPH); Connecticut Department of Environmental Protection (CTDEP) 13 metals; lead; and arsenic. The following analyses were conducted for groundwater samples: hexavalent chromium; ETPH; VOCs; CTDEP 13 metals; and total cyanide. The results of these analyses were compared to criteria provided in the Connecticut Remediation Standard Regulations (RSRs) so that remediation requirements could be evaluated.

The results of these analyses were also compared to the proposed revisions to the RSRs, for informational purposes only. The remediation concepts discussed in this report are based on meeting current RSR standards; however, the remediation concepts may need to be revised if remediation actions at the site are commenced after the proposed revised RSRs become law. These criteria are described in Section 2.

Contaminants were detected at concentrations exceeding the CTRSR criteria in some soil and groundwater samples collected from the sites. A conceptual site model was developed to provide a representation of the nature and extent of contamination in soil and groundwater at the site. This model can be utilized to develop plans subsequent to environmental investigation for remediation and is discussed in Section 7. The exceedances are also discussed with regard to each REC in Section 8.

The City's goal is to have the site remediated in accordance with the Connecticut RSRs under one of Connecticut's Voluntary Remediation Programs and redevelop the site for future commercial or industrial use. Based on the results of the Phase III investigation, remediation of soil and groundwater at the site is required to meet the requirements of the RSRs. It is recommended that a remedial action plan and remediation design that incorporates the RSR requirements and redevelopment strategies be prepared as the next step. A detailed cost estimate for remediation could accompany this plan.

## 1.0 Scope and Objectives

AECOM Environment (formerly Metcalf & Eddy (M&E)) was contracted by the City of Bridgeport Office of Planning and Economic Development to conduct a Phase III Environmental Site Assessment (ESA) at property located at 80 Hastings Street in Bridgeport, Connecticut (the "site").

The objectives of the Phase III ESA are to better define the extents of contamination found on-site during previous investigations and to provide site environmental condition information to the City of Bridgeport, to assist in the evaluation of future redevelopment opportunities for the site. The Phase III ESA was performed in accordance with the Quality Assurance Project Plan Addendum (M&E, December 2008), which was approved by the United States Environmental Protection Agency (USEPA). This Phase III ESA was focused on further evaluating recognized environmental conditions in soil and groundwater which could pose the most significant effect on redevelopment opportunities at the site. In addition, building materials were further evaluated for the presence of lead and asbestos. Impacted interior building surfaces and equipment associated with former building operations will require characterization and appropriate remediation/decommissioning measures during site redevelopment. The Phase III investigated the following recognized environmental conditions (RECs):

- REC 2: Soils within the parking lot area were further evaluated for the extent of contamination and potential remediation options.
- REC 3: On-site groundwater was further evaluated for the potential of metals and petroleum contamination from historic metal plating operations and/or seepage from floor drains and compromised sub-grade structures.
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- REC 16: The chemical storage area on the southeast corner of the building was inaccessible to the drill rig due to large, unmovable containers blocking the entrance. A soil boring was performed just outside the entrance to the storage room to evaluate potential sources of contamination.
- REC 17: A visual inspection and soil boring of the tool room was performed to investigate any potential releases.

This report is subject to the Statement of Limitations contained in Appendix A.

## 2.0 RSR Criteria

The following regulations and associated criteria are presented as they have been used to compare and evaluate the soil and groundwater data obtained during this Phase III ESA.

### 2.1 Connecticut Remediation Standard Regulations

The Connecticut Remediation Standard Regulations (RSRs) (CTDEP, 1996) include numeric criteria for compounds identified in soil, soil vapor and groundwater. The Phase III ESA completed for this site included the collection and analyses of soil and groundwater samples. During the Phase II ESA, soil, groundwater, and concrete samples were collected and analyzed. These results were compared to the RSR criteria discussed below.

#### 2.1.1 Soil Remediation Criteria

The RSRs contain numerical, default criteria for contaminated soil associated with a release area that are based on both the potential for direct human health impacts from exposure to contaminants (direct exposure criteria) and on the potential for contaminants in the soil to have an adverse impact on groundwater (pollutant mobility criteria). Two sets of direct exposure criteria are specified: one derived for residential land use, and the other derived for industrial and certain commercial land use. Similarly, two sets of pollutant mobility criteria are specified: one for areas with a groundwater classification of GA/GAA, and one for a groundwater classification of GB. Class GA/GAA groundwater is groundwater that is an existing or potential source of potable water and is presumed to be suitable for human consumption without the need for treatment. Class GB groundwater is presumed to have been degraded by past urban or industrial activities and may not be suitable for human consumption without treatment. Additional information on these criteria is presented in the following subsections.

##### Direct Exposure Criteria

The RSR definition of “residential activity” includes activities related to a residence or dwelling, as well as activities related to schools, hospitals, daycare centers, playgrounds, or outdoor recreation areas. The residential direct exposure criteria (RES DEC) apply in areas with residential activities, but are also the default criteria used to evaluate potential human exposure in all areas. Industrial/commercial direct exposure criteria (I/C DEC) may be applied to areas that do not fit the definition of residential activity, but an Environmental Land Use Restriction (ELUR) must be executed to prevent residential uses of the property. These criteria are for comparison to soil data analyzed on a mass of contaminant to mass of soil basis (typically milligram per kilogram, or mg/kg).

##### Pollutant Mobility Criteria

The RSRs for organic contaminants include a set of numerical pollutant mobility criteria (PMC) for contaminated soils on a mass/mass basis. Alternatively, organic contaminants can be analyzed using the toxicity characteristic leachate

procedure (TCLP) or synthetic precipitation leachate procedure (SPLP), with the results compared to the groundwater protection criteria (GPC) based upon the mass of the contaminant per liter of leachate, reported in mg/L. For GB aquifer areas, the results are compared to the groundwater protection criteria (GPC) times a factor of 10.

The RSR PMC for inorganic contaminants (metals) are based on TCLP or SPLP analysis of the soil. For GA areas, the PMC equal the GPC, for GB areas, the PMC are 10 times the groundwater protection criteria. However, under certain circumstances specified in the RSRs, the same 10 times factor may be applied in GA areas.

Depending on the groundwater classification, the RSRs include various options such as alternate PMC or the application of dilution factors. If site-specific criteria or dilution factors are proposed, a site-specific demonstration must be made that after dilution with on-site groundwater, the GPC will not be exceeded.

#### 2.1.2 Groundwater Remediation Criteria

The RSRs contain numerical, default criteria for contaminated groundwater associated with a release area that are based on the potential for the groundwater to impact groundwater integrity in the area (groundwater protection criteria), to impact surface water (surface water protection criteria), and to impact human health by volatilization into structures (volatilization criteria). Two sets of volatilization criteria are specified: one derived for residential land use, and the other derived for industrial and certain commercial land use. Similarly, two sets of groundwater protection criteria are specified: one for areas with a groundwater classification of GA/GAA, and one for a groundwater classification of GB. Only one set of groundwater protection criteria is specified.

#### Groundwater Protection Criteria (GWPC)

GWPC apply to both GA and GB classified groundwater areas under certain conditions. The default criterion for GA classified groundwater is background. However, under certain conditions, GWPC may be used as the remediation criteria. The conditions include, but are not limited to, GA classified areas where a public water supply is located within 200 feet of the site. Furthermore, remediation is not required for compounds detected above background levels but less than applicable GWPC as long as certain conditions are met. For GB areas, GWPC applies if the groundwater is used for drinking or other domestic use.

#### Surface Water Protection Criteria (SWPC)

If contaminated groundwater discharges to a surface water and interferes with the attainment of surface water quality standards, then groundwater remediation may be required. In addition, if the groundwater discharges to a wetland or an intermittent stream, aquatic life criteria are used to evaluate the need for remediation.

### Volatilization Criteria (VC)

The RSRs include volatilization criteria for contaminated groundwater within 15 feet of the ground surface or a building. However, changes to the VC that were proposed in 2003 include applying the VC to a maximum depth of 30 feet below ground surface. The intent of these criteria is to prevent human exposure to vapors from contaminated groundwater. As with the soil criteria, volatilization criteria for both residential (RES VC) and industrial/commercial (I/C VC) uses are specified.

In addition to the criteria discussed above, the RSRs include information on statistical evaluation of sample data, including the use of the 95% upper confidence level data to compare to the RSR criteria; rendering soil that exceeds DEC inaccessible, which requires the institution of environmental land use restrictions; reuse of polluted soil; engineered controls of contaminated media; remediation requirements for LNAPL; development of criteria for substances that are not specified in the RSRs; development of alternative criteria, and other issues.

## **2.2 Summary of RSR Criteria Applied to the Site**

The project evaluation criteria are based on the RSRs and the following site-specific conditions: the site is located in a GB aquifer area and the future use of the site has not been determined, but is anticipated to be industrial/commercial.

### Soil Criteria

The soil RSR criteria used to evaluate the obtained data are the RES DEC, I/C DEC and GB PMC. The area is classified as GB for groundwater. Future site use has not been determined, so the data have been compared to both the residential and industrial/commercial direct exposure criteria.

### Groundwater Criteria

The groundwater RSR criteria used to evaluate compliance are the SWPC, RES VC, and I/C VC. The area is classified as GB for groundwater. Groundwater is assumed to ultimately discharge to Stillman Pond, which is the nearest named surface water body and is located east-southeast of the site. Future site use has not been determined, so the data have been compared to both the residential and industrial/commercial criteria.

### Concrete Criteria

The analytical results for the concrete from the Phase II ESA were compared to the RES DEC and I/C DEC. The TCLP results were compared to disposal criteria to evaluate potential classification of the concrete should it require disposal.

### **2.3 Proposed Revisions to the Connecticut Remediation Standard Regulations**

In the Fall of 2008, the CTDEP publicized proposed revisions to the current CT RSRs. The revisions have altered some of exceedance criteria based on updated toxicology data, analytical capabilities, remediation practicality, and other factors. Some new compounds have also been added to the criteria that were previously unregulated. However, the analytical results obtained during the Phase III Investigation are primarily compared to the current CT RSR criteria. Although the revised criteria are not currently in effect and may not necessarily affect remediation plans for this site, discussion regarding the effect of these revised criteria on the presence of RSR criteria exceedances at the site are discussed in Sections 7 and 8. The revised criteria are shown on the data tables for Phase II (provided as Appendix H) and Phase III (Tables 4 and 5) investigations for informational purposes only. The remediation concepts discussed in this report are based on meeting current RSR standards. However, the remediation concepts may need to be revised if remediation actions at the site are commenced after the proposed revised RSRs become law.

## **3.0 Site Description and Environmental Conditions**

### **3.1 Site Setting**

The site is located at 80 Hastings Street, in the City of Bridgeport, Fairfield County, Connecticut. The site is identified in the City of Bridgeport Tax Assessor's office as Block 2022 Lot 36 and is located between Cogswell and Rockland Streets to the north and south, respectively, and west of Asylum Street. A site location map is provided as Figure 1. The site is in an area of mixed residential and commercial/industrial land uses and consists of approximately 1.25 acres of land.

Figure 2 presents a site plan. The site is zoned I-LI and improved with a 37,312 square foot concrete/cinder block light manufacturing building, 480 square feet of which consists of finished mezzanine level offices and break rooms. Asphalt pavement encompasses approximately 12,000 square feet along the eastern portion of the site. An approximate six foot by eight foot concrete vault filled with asphalt and debris is present on the southern portion of the asphalt parking lot area. The eastern and southern portions of the perimeter of the site consist of a seven-foot high chain link fence and entrance gate along Hastings Street. Electrical transformer housing is present on the northern portion of the asphalt parking lot area.

The site topography gradually slopes from north to south with an approximate elevation of 50 feet National Geodetic Vertical Datum (NGVD), 1929 above mean sea level (see Figure 1). The 100-year flood plain boundary in Bridgeport along the coast is 10 feet NGVD. Therefore, the site does not lie within the 100-year flood plain.

### **3.2 Surrounding Properties**

Properties nearby 80 Hastings Street have various site uses. The site is bordered on the northwest by residential properties and on the north-northeast by two buildings occupied by Emtec Metal Products, American Machinery, and Vitramon, located at 200 Cogswell Street and 315 Asylum Street. An approximate 4,000 square foot storage building is located just north of the site at 305 Asylum Street. North of Cogswell Street is Unger Quality Tools, manufacturer of cleaning tools.

The site is bound to the east by City Park, east of Asylum Street. Lakeview Cemetery is located east of Asylum Street. A small industrial complex is located to the south-southeast of the site, located at 231-265 Asylum Street. The complex consists of following businesses: The Griffith Company, warehouse distributors, Lake Grinding, TNL, LLC, Centro Company, and Turnpike Furnace Company. A parking area for the industrial complex is located to the southwest, and a residential neighborhood is located to the west.



### **3.3 Previous Investigations**

#### **3.3.1 Phase I ESA and EPA Removal Action**

M&E conducted a Phase I Environmental Site Assessment for the property in July 2008 (M&E, 2008). M&E's Phase I Report (M&E, July 2008) provides information regarding historical site uses and recognized environmental conditions (RECs). The RECs are discussed in the next section. Past site uses identified at the site using historical topographic maps, historical aerial photographs and Sanborn mapping are vacant land from 1893 to 1972 and industrial from 1972 to the present. The industrial use has been a metal plating shop from 1972 until approximately 2000 when the current operations ceased.

An Environmental Protection Agency ("EPA") emergency removal program was conducted at the site in 2002. Removal actions began on January 14, 2002 and were completed on August 6, 2002. Interim removal actions were summarized in two USEPA Pollution Reports (POLREPs), dated February 1, 2002 and March 15, 2002. All removal activities were summarized in a report entitled Removal Program After Action Report, dated September 2002, prepared by Weston Solutions, Inc. (Weston) for the a USEPA. Additional details regarding these EPA removal actions are provided in the M&E Phase I ESA report (July, 2008).

#### **3.3.2 Phase II ESA**

Eighteen RECs were identified at the site as part of the Phase I ESA and development of the Quality Assurance Project Plan (QAPP) for the Phase II ESA (M&E, August 2008). These RECs, as well as their associated Phase II ESA assessment activities, are summarized (by number) as follows and depicted on Figure 2:

1. Soil – Subsurface soils due to cyanide and/or other metals and petroleum contamination from historic metal plating operations, spills, and/or seepage from floor drains or compromised sub-grade structures. Specific items potentially contributing to this REC include floor drains, utility trenches, sumps, depressions, compromised floor areas (if present), specific plating/industrial operations, cleaning areas, boiler room, laboratory, etc. Potential contaminants of concern associated with this REC include petroleum, cyanide, cadmium, nickel, zinc, and other metals. This REC was evaluated for volatile organics compounds (VOCs), cyanide, extractable total petroleum hydrocarbons (ETPH), and CT RSR 15 metals. In addition, select soil samples were analyzed for pollutant mobility issues related to cyanide and metals using the synthetic precipitation leaching procedure (SPLP) extraction.
2. Urban Fill - Historic fill may be potentially present. Potential contaminants of concern associated with this REC include metals and polycyclic aromatic hydrocarbons. This REC was evaluated for polycyclic aromatic hydrocarbons (PAHs) and CT RSR 15 metals. In addition, select soil samples were analyzed for pollutant mobility issues related to PAHs and metals using the synthetic precipitation leaching procedure (SPLP) extraction.

3. Site-Wide Groundwater – Cyanide and/or other metals and petroleum contamination from historic metal plating operations, spills, and/or seepage from floor drains or compromised sub-grade structures. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, cyanide, and metals. This REC was evaluated for VOCs, cyanide, and CT RSR 15 Metals.
4. Off-Site Groundwater – Potential contamination in off-site groundwater from neighboring industrial/commercial properties that flows onto this property. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, cyanide, and metals. REC 4 is potential off-site groundwater impacts to the 80 Hastings site. REC 4 was not directly assessed during the Phase II ESA.
5. Residual petroleum – Possible hydraulic oil in lifts in loading docks and observed oil spills in the building. Potential contaminants of concern associated with this REC include petroleum. REC 5 was not evaluated directly during the Phase II ESA.
6. Residual chemicals – Solids – cyanide and/or other metals, precipitates and filter cake on the main production floor. Liquids - acidic and/or basic solutions and metals solutions in the floor trenches. Desiccated sludge in the sludge holding tank. Additional residual chemicals may be present in equipment remaining on site, and in the laboratory. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, cyanide, and metals. REC 6 was not evaluated directly during the Phase II ESA.
7. PCBs – Possible PCBs related to hydraulic lifts, the former transformers, and light ballasts in the southern storage room and eastern office areas. REC 7 was not evaluated directly during the Phase II ESA.
8. Lead-Based Paint (LBP) – Potential LBP observed on steel beams and in boiler room, due to age of facility. REC 8 was evaluated using XRF field screening techniques.
9. Asbestos-Containing Materials (ACM) – Potential asbestos in the ovens on site, in the boiler room, and in floor and ceiling tiles in the laboratory and offices. REC 9 was evaluated using field observations and PLM.
10. Freon – Freon remaining in window air conditioner units in the office area. REC 10 was not evaluated during this work.
11. Mold – Mold may be present on the building interior since the interior of the building is exposed to the elements. REC 11 was not evaluated during the Phase II ESA.
12. Vault structure – Potential soil and/or groundwater contamination in the vicinity of the unknown concrete vault structure located in the southern portion of the parking lot. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, and metals. This REC was evaluated for VOCs, CT extractable total petroleum hydrocarbons (CT ETPH) and metals.

13. Fire Damage – Smoke staining, potentially containing PAHs, is present on the building interior from the January 2008 fire at the site. REC 13 was not evaluated during the Phase II ESA.
14. Impacted Concrete – Concrete floor slabs may be contaminated due to historic spills. Potential contaminants of concern associated with this REC include metals. This REC was evaluated using total PP 13 metals and TCLP RCRA 8 metals.
15. Loading Docks – Loading dock areas may represent potential sources of contamination due to historic spills or leakage. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, and metals. This REC was evaluated for VOCs, CT ETPH, and CT RSR 15 metals.
16. Chemical Storage Areas – Chemical storage areas may represent potential sources of contamination due to historic spills or leakage. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, cyanide, and metals. Only one chemical storage area, the one associated with cyanide storage, was evaluated during the Phase II ESA.
17. Tool Room – Chemicals may have been used and/or stored in the tool room. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, and metals. This REC was not evaluated as part of the Phase II ESA.
18. Subsurface Drainage Structures – Subsurface drainage structures, some potentially related to the municipal sanitary sewer system, may be present and may contain residual contamination. Potential contaminants of concern associated with this REC include volatile organic compounds, petroleum, cyanide, and metals. REC 18 was not directly evaluated as part of the Phase II ESA but may need to be evaluated in the future.

M&E subsequently conducted a Limited Phase II Environmental Site Assessment for the property in September, 2008. The Phase II ESA focused on the RECs believed to have the greatest impact to the environmental status of the site. The results of the investigation were provided in M&E's Phase II Report (M&E, October 2008) and are summarized below and in Figure 2. RECs 1, 2, 3, 8, 9, 12, 14, 15, and 16 were investigated as part of the Phase II ESA:

1. Subsurface Soils – Soils under the building slab were found to contain arsenic, cadmium, chromium, thallium above RES DEC and arsenic and chromium, and nickel above I/C DEC.
2. Urban Fill – Arsenic was detected in soil borings taken in the parking lot area at concentrations near or exceeding the RES DEC.
3. Site-Wide Groundwater – Groundwater was found to exceed SWPC for cyanide, arsenic, cadmium, chromium, copper, lead, and zinc.

8. Lead-Based Paint (LBP) – Several surfaces in the building were identified as containing lead including interior window casing, concrete walls and brick walls in Section #3 of the building (Shown in Appendix F).
9. Asbestos-Containing Materials (ACM) – Several different types of asbestos-containing materials are present in the building at several locations. The total estimated quantity of asbestos containing materials could potentially be refined based on the additional sampling.
12. Vault structure – A soil boring near the vault showed RES DEC exceedances for ETPH and Lead and an I/C DEC exceedance for lead.
14. Impacted Concrete – Concrete chip samples from concrete floor slabs were found to contain arsenic, cadmium, copper, lead, hexavalent chromium and nickel in excess of RES DEC and arsenic, nickel, and hexavalent chromium in excess of I/C DEC.
15. Loading Docks – A soil boring in the loading dock area showed a RES DEC exceedance for arsenic potentially due to historic fill or historic spills or leakage. ETPH was detected but not in excess of RSR criteria. No evidence of a significant or continuing release was found.
16. Chemical Storage Areas – A soil boring near the cyanide storage area located on the north side of the building showed the presence of cyanide in the soil however the concentration was below RSR criteria.

### **3.4 Site Surface Drainage**

Based on topography, surface runoff on-site appears to flow to the south-southwest toward Stillman Pond, located approximately 3,000 feet from the site. Storm water is collected by roof drains on the building and released along the perimeter of the building. No catch basins were observed on-site; however, Asylum Street is serviced by the municipal storm water sewer system.

### **3.5 Site Utilities**

Based on the Phase I Report (M&E, July 2008), there are no active municipal sanitary sewer, municipal water, electrical and gas utilities currently servicing the site. During historic site operations, the site was serviced by these utilities. Public utilities service the adjacent properties surrounding the site.

### **3.6 Water Supply Wells**

Based on the Phase I Report (M&E, July 2008), there are no water supply wells on the site, and there are no public water supply wells in use within one mile of the site.

### **3.7 Surface Water**

According to the Water Quality Classification Map (CTDEP, 1997), the site is located in the Housatonic River, Hudson River, and Southwest Coastal Basin of Connecticut. Stillman Pond is the nearest named surface water body, located to the east-southeast of the site. Stillman Pond is classified as a class C/B surface water. A class C/B designation indicates inland surface waters of an unacceptable quality, with the goal being Class B. Class B surface waters are designated for recreational use, fish and wildlife habitat, agricultural and industrial supply, and other uses including navigation.

Stillman Pond flows south to the Yellow Mill Channel (Bridgeport Harbor) and eventually to Long Island Sound. The Yellow Mill Channel and Bridgeport Harbor are classified as SC/SB surface waters. A class SC/SB designation indicates that the saline waters have been impacted by point or non-point sources of pollution, and certain criteria or one of more designated uses assigned to Class SB surface waters may not be currently met. The water quality goal is achievement of Class SB criteria and attainment of Class SB designated uses.

### **3.8 Groundwater**

The CTDEP classification for the groundwater in the vicinity of the site is GB, which is defined as groundwater that is presently known or presumed to be degraded due to historical land use practices and is not suitable for human consumption without prior treatment (Water Quality Classifications Map for Housatonic River, Hudson River, and Southwest Coastal Basins, CTDEP, 1997).

The flow direction is not exactly known, but is assumed to be to the south-southeast, toward Stillman Pond. Groundwater does not appear to be much shallower than the natural bedrock surface directly beneath the site. Bedrock and groundwater elevations are shown on Figure 4, and the relationship between bedrock and groundwater at the site is discussed later in this report.

### **3.9 Surficial and Bedrock Geology**

The surficial soils underlying the site are mapped as stacked coarse sand deposits overlying fines (*Surficial Materials Map of Connecticut*, Stone et al., 1992). The potential exists for the near surface soils to consist of urban fill materials overlying native deposits. The fill material may vary in composition, but may have been historically placed to level land for development in the area. Urban fill material typically consists of sand and gravel, as well as ash/cinders, glass, plastic, brick, concrete, and wood.

According to the historical topographic maps provided in Appendix F, the elevation of the site appears to have been approximately 50 feet above mean sea level since 1893.

According to the USGS *Bedrock Geologic Map of the Long Hill and Bridgeport Quadrangle, Connecticut* (Crowley, 1968), bedrock in the vicinity of the site is classified as a schist and gneiss associated with the Derby Hill Member on the Orange formation. During the site walk, bedrock outcropping was observed along Cogswell Street.

## **4.0 Phase III Investigation Activities**

The Phase III investigated the following recognized environmental conditions (RECs):

- REC 2: Soils within the parking lot area were further evaluated for the extent of contamination and potential remediation options.
- REC 3: On-site groundwater was further evaluated for the potential of metals and petroleum contamination from historic metal plating operations and/or seepage from floor drains and compromised sub-grade structures.
- REC 7: The area of the former transformers was evaluated for possible polychlorinated biphenyl (PCB) contamination.
- REC 8: Toxicity characteristic leachate procedure (TCLP) analysis of potential lead-based paint materials was conducted.
- REC 9: Additional sampling of analysis of potential asbestos-containing materials will be performed.
- REC 12: Additional characterization of the vault structure was performed to further evaluate the extent of the total petroleum hydrocarbon (TPH) and lead impacts.
- REC 15: Another loading dock was evaluated for the presence of contaminants using a soil boring.
- REC 16: The chemical storage area on the southeast corner of the building was inaccessible to the drill rig due to large, unmovable containers blocking the entrance. A soil boring was performed just outside the entrance to the storage room to evaluate potential sources of contamination.
- REC 17: A visual inspection and soil boring of the tool room was performed to investigate any potential releases.

### **4.1 Pre-Field Work**

Prior to the commencement of invasive activities at the site, Call-Before-You-Dig (CBYD), a public utility locating service, was contacted to minimize interruption of buried utilities. All work was conducted in Modified Level D personal protective equipment.

Four contractors were procured for field and laboratory services: Glacier Drilling, LLC of Durham, CT (soil boring and monitoring well installation services); Hygenix of Stamford, CT (ACM and LBP testing); Con-Test Analytical Laboratory, of East Longmeadow, MA (analytical laboratory services), and Nafis and Young Engineers, of Northford, CT (surveying services).

### **4.2 Soil Borings**

Twenty-nine (29) soil borings were conducted at the site on December 22 and 23, 2008. The borings were drilled to depths ranging between 1.5 to 9.0 feet below grade. Locations are shown on Figure 2. Boring depths, refusal depths and bedrock elevations are presented in Table 2. Shallow bedrock, from approximately 1.5 to 9.0 feet below grade, was encountered (based on refusal of Geoprobe borings) in twenty-seven (27) of the twenty-eight (28) borings. Moist soils were encountered in several borings, but the

water table was only encountered at two borings: approximately six (6) feet below grade in boring SB-23 and approximately two and one half (2.5) feet below grade in boring SB-10/MW-2. Soils consisted primarily of tan-brown to green-brown sands, silt, gravel, and fragments of weathered bedrock. Layers of ash, cinders, and brick and plastic fragments were present in several soil borings. Soil boring logs are located in Appendix B.

The soil borings were installed using a Geoprobe 54LT track mounted rig. Sample cores were collected using clean, disposable acetate liners and retrieved in 4-foot intervals. Each core was logged by the field engineer and field screened using a PID. Dedicated disposable sampling trowels were used to collect samples. All samples were grab samples. Sampling intervals were recorded on the boring logs. VOCs samples were collected in accordance with EPA Methods 5035 and 8260b.

Up to two sample aliquots were collected from each soil boring. One (1) aliquot was collected from a surficial interval for compositing within that soil boring, the other typically from an interval spanning the water table or an additional interval based on field judgment. Select soil samples were preserved with ice and submitted to ConTest for analysis of one (1) or more of the following parameters:

- Volatile Organic Compounds (VOCs) by EPA Method 5035/8260b;
- Extractable Total Petroleum Hydrocarbons (ETPH) by CTETPH Method;
- PP13 Metals by EPA Method 6020/7471 and SPLP Metals by EPA Method 1312/6020/7471;
- Hexavalent chromium by EPA Method 3060a;
- Arsenic by 7061a;
- Lead by EPA Method 7010; and
- PCBs by EPA Method 8082.

SPLP and hexavalent chromium analysis was performed on soil samples based on the results of the total concentration analysis. A summary of the number of soil and groundwater samples collected and the sample parameters analyzed is presented in Table 1.

Excess soil cuttings were placed back into the open boreholes. The soil borings were then backfilled with clean sand, if necessary, and completed to existing grade with asphalt, with the exception of SB-10 through 13 which were completed as groundwater monitoring wells.

#### **4.3 Monitoring Well Installation and Well Development**

Four (4) monitoring wells (MW-2 through 5) were installed on December 22 and 23, 2008 at soil boring locations SB-10 through 13 respectively. Well construction details are tabulated in Table 3 and detailed in Appendix C. Wells were constructed of 1-inch diameter PVC with 0.010-inch slotted screen. Wells were completed with a flush-mounted roadbox set into the concrete floor (MW-3 and -5), asphalt sidewalk (MW-2) or asphalt parking lot (MW-4). The wells could not be developed due to low water table and poor recharge at the time of installation. The bottoms of the wells were set directly on the bedrock surface (refusal).



#### **4.4 Groundwater Measurement and Sampling**

Groundwater sampling was conducted on January 6, 2008. Water table elevations are presented in Table 3. Groundwater was not present at MW-5, and MW-2 through -4 did not yield enough water to sample by low-flow or grab sampling methods. MW-1 was the only well able to be sampled. EPA low-flow groundwater sampling procedures were followed and a peristaltic pump was used to collect the groundwater sample. The discharge from the pump was routed through a YSI 600 water-quality meter that measured dissolved oxygen, pH, temperature, ORP, and specific conductivity. The discharge was also analyzed for turbidity using a Lamont Turbidity Meter. These parameters were recorded on the groundwater sampling log located in Appendix D. The groundwater was sampled after the parameters stabilized in accordance with EPA low-flow protocol. The samples were preserved with ice, as well as hydrochloric acid (VOCs), nitric acid (metals), and sodium hydroxide (cyanide), and one or more samples were submitted to ConTest for the following analyses:

- VOCs by EPA Method 8260b;
- PP13 Metals by EPA Method 6020/7471 (arsenic by graphite furnace);
- Cyanide by EPA Method 9010/335.2;
- Hexavalent Chromium by EPA Method 3060a; and
- ETPH by CTETPH.

#### **4.5 ACM and LBP Measurement and Sampling**

An ACM and LBP survey and testing program was conducted at the site on December 23, 2008 by Hygenix of Stamford, CT. A similar investigation was conducted on September 9, 2008 by Hygenix. The purpose of this investigation was to further assess the quantities of ACM and LBP that may require special handling and disposal. Potential ACM were evaluated by Hygenix personnel utilizing field observations and in an off-site laboratory using polarized light microscopy (PLM). A total of 79 samples of potential ACM were collected and analyzed using PLM. Potential ACMs were also identified and quantified.

Pre-demolition LBP sampling was performed on different building materials on the three sections of the building that may be disturbed during demolition activities. Painted materials that may be disposed of during demolition were sampled for soluble lead (TCLP test) to determine if they could be disposed of as general waste. The samples collected were delivered to Schneider Laboratories and were analyzed by EPA SW846 Method 1311 (TCLP) with lead analysis by EPA 7420 method.

The results of the ACM and LBP survey and testing are presented in the Hygenix reports attached as Appendices E and F, respectively, and discussed in Section 5.3.

#### **4.6 PCB Wipe Sample**

The area of the former transformers (REC 7) was evaluated for possible PCB contamination. A PCB wipe sample was taken from the surface of the transformer pad.

No stained areas were found on the surface area. This PCB sample and a duplicate sample were submitted for analysis.

## 5.0 Sampling Analytical Results

Laboratory analytical reports for the soil and groundwater samples are located in Appendix G. The analytical results were evaluated with respect to the RSR criteria. Soil sample analytical results are summarized in Table 4. Groundwater sample analytical results are summarized in Table 5. Data validation qualifiers for both soil and groundwater samples are provided in Table 6. Data validation methods are discussed in Section 6.0.

### 5.1 Soil Analytical Results

Exceedances of the current RSRs for soil samples, including samples conducted during the Phase II investigation, are shown on Figure 3. Exceedances of the existing RSRs for only Phase III borings are as follows:

**Arsenic.** Twenty-eight (28) soil samples from twenty-three (23) soil borings were collected and analyzed for arsenic. Arsenic was detected in several samples. Two samples, SB-28, collected at a depth of 6-15 inches, and SB-16 DUP, collected at a depth of 6-20 inches, resulted in arsenic concentrations of 16.8 mg/kg and 10.2 mg/kg, respectively, above the RES DEC and I/C DEC of 10 mg/kg.

**SPLP Arsenic.** Three (3) soil samples from three (3) soil borings were collected and analyzed for SPLP arsenic. Arsenic was not detected in any of the samples.

**Hexavalent Chromium.** Two (2) soil samples from one (1) soil boring were collected and analyzed for hexavalent chromium. Hexavalent chromium was detected in both samples, but below the RES DEC and I/C DEC of 100 mg/kg.

**Lead.** Three (3) soil samples from two (2) soil borings were collected and analyzed for lead. Lead was detected in all three samples, but only the sample from SB-32 resulted in a lead concentration of 887 mg/kg above the RES DEC of 400 mg/kg.

**SPLP Lead.** Two (2) soil samples from two (2) soil borings were collected and analyzed for SPLP lead. One sample, SB-32, resulted in a concentration of 0.16 mg/L, above the existing RSR GB PMC criteria of 0.15 mg/L.

**VOCs.** Three (3) soil samples from two (2) soil borings were collected and analyzed for VOCs. Several VOCs were detected in SB-13 and SB-13 DUP, but not exceeding the RES DEC, I/C DEC, or GM PMC.

**ETPH.** Five (5) soil samples from four (4) soil borings were analyzed for ETPH. ETPH was detected in all of the samples, but only SB-32 and SB-32 DUP, collected at a depth of 12-32 inches, resulted in an ETPH concentration of 850 mg/kg and 740 mg/kg, respectively, above the RES DEC of 500 mg/kg. No samples exceeded the I/C DEC or GB PMC of 2,500 mg/kg.

**CTRSR 13 Metals.** Two (2) soil samples from one (1) soil boring (SB-16) were analyzed for CTDEP 13 metals. A summary of the results is as follows:

- Cadmium, nickel, beryllium, chromium, copper, mercury and zinc were detected in both samples below RSR criteria. Antimony, selenium, silver and thallium were not detected in either sample.

**CTRSR SPLP 13 Metals.** One (1) soil sample (SB-16 DUP) was analyzed for CTDEP SPLP 13 metals. Zinc was detected in this sample below RSR criteria. No other SPLP metals were detected in this sample.

**PCBs.** Three (3) soil samples from two (2) soil borings were analyzed for PCBs. PCB-1254 was detected in SB-15 below the RSR criteria. No other PCBs were detected in the samples. A PCB wipe sample and duplicate were also taken from the surface of the transformer pad and submitted for analysis. No PCBs were detected in either wipe sample.

#### 5.1.1 Soil Sample Exceedances Due to Revisions to RSRs

Exceedances of the proposed revisions to the RSRs for soil samples, including samples conducted during the Phase II investigation, are provided in Table 7. Changes to the exceedances of the proposed revisions to the RSRs for only Phase III borings are as follows:

- The arsenic and ETPH standards were not changed in the proposed revisions to the RSRs, therefore exceedances to these standards would likewise remain unchanged.
- While the mass standard for lead did not change in the proposed revisions, the GB PMC standard was raised from 0.15 mg/L to 120 mg/L. Therefore, sample SB-32 would no longer exceed the GB PMC under the proposed revisions. The cadmium RES DEC standard was lowered from 34 mg/kg to 1.4 mg/kg in the proposed revisions to the RSRs; therefore, cadmium was detected in two samples at concentrations exceeding the revised RES DEC: SB-16 (6-20 inches) at 5.38 mg/kg and SB-16 DUP (6-20 inches) at 8.05 mg/kg.
- Similarly, the nickel RES DEC standard was lowered from 1,400 mg/kg to 45 mg/kg in the proposed revisions; therefore, nickel was detected in the two samples at concentrations exceeding the revised RES DEC: SB-16 at 64.3 mg/kg and SB-16 DUP at 76.7 mg/kg.
- Neither cadmium nor nickel exceeded the existing RES DEC.

## 5.2 Groundwater Analytical Results

Exceedances of the existing RSRs for groundwater samples are shown on Figure 4 and as follows:

**VOCs.** Two (2) groundwater samples from one (1) monitoring well were collected and analyzed for VOCs. Chloroform and trichloroethylene were detected in both samples below RSR criteria. No other VOCs were detected in either sample. The laboratory detection limit 1,2-Dibromoethane exceeded the existing RSR RES VC.

**Metals.** Two (2) groundwater samples from one (1) monitoring well were collected and analyzed for CTDEP 13 metals. A summary of the results is as follows:

- Cadmium was detected in both samples at concentrations exceeding the SWPC of 6 µg/L : MW-1 at 836 µg/L and MW-1 DUP at 831 µg/L.
- Copper was detected in both samples at concentrations exceeding the SWPC of 48 µg/L : MW-1 at 404 µg/L and MW-1 DUP at 430 µg/L.
- Lead was detected in both samples at concentrations exceeding the SWPC of 13 µg/L : MW-1 at 65.9 µg/L and MW-1 DUP at 78.2 µg/L.
- Nickel was detected in both samples but did not exceed the existing SWPC of 880 µg/L.
- Zinc was detected in both samples at concentrations exceeding the SWPC of 123 µg/L: MW-1 at 1780 µg/L and MW-1 DUP at 1870 µg/L.
- Antimony, arsenic, total chromium, hexavalent chromium, and mercury were detected in both samples below the SWPC. No other metals were detected in either sample.

**Cyanide.** Two (2) groundwater samples from one (1) monitoring well were collected and analyzed for total cyanide. Total cyanide was detected in both samples at concentrations exceeding the SWPC (0.052 mg/L): MW-1 at 0.197 mg/L and MW-1 DUP at 0.214 mg/L.

**ETPH.** Two (2) groundwater samples from one (1) monitoring well were collected and analyzed for ETPH. ETPH was detected in both samples, however, no standard for ETPH exists for both the existing and revised I/C VC, RES VC, and SWPC.

#### 5.2.1 Groundwater Sample Exceedances Due to Revisions to RSRs

Exceedances of the proposed revisions to the RSRs for groundwater samples are provided in Table 7 and as follows:

- The SWPC standards for cadmium, copper, lead, and zinc were all lowered in the proposed revisions to the RSRs. Therefore, exceedances to these standards would remain in effect.
- The SWPC standard for nickel was lowered from 880 µg/L to 290 µg/L; therefore, nickel was detected in MW-1 and MW-1 DUP at a concentration of 411 µg/L and 405 µg/L, respectively, above the revised SWPC.
- The SWPC for total cyanide was not changed in the revisions to the RSRs, therefore both samples are still in exceedance of the SWPC.
- No standard for ETPH exists for the revised I/C VC, RES VC, and SWPC.

### 5.3 Asbestos Sampling and Screening Results

Additional asbestos sampling and survey activities were conducted in December 2008 to further assess the quantities of asbestos-containing building materials that may require special handling and disposal. A visual site inspection was conducted and 79 samples were collected and analyzed for asbestos by PLM (55 were analyzed during the September 2008 inspection). The results of the asbestos sampling and survey activities

are provided in the report included as Appendix E. This report is comprehensive and includes both the September and December investigations. The locations of asbestos containing materials are provided in the report. The following inventories are provided in the report:

- asbestos containing materials both confirmed by sampling and suspected without sampling results; and
- non-asbestos containing materials confirmed by sampling

No additional asbestos containing materials were identified during the December 2008 investigation. The following quantities of asbestos containing materials were estimated during the inspection:

- Sink insulation from 6 sinks;
- 850 square feet of double layered 9x9 floor tiles;
- 1000 square feet roof flashing/ cement
- 450 square feet roll-out roofing
- 1800 square feet roof field
- Unknown quantity of tar coated wood roofing debris;
- 4 fire doors;
- 3000 square feet and 100 linear pipe insulation;
- 20 steam line compression gaskets ;
- An unknown quantity of sheet rock and joint compound from interior walls and ceilings;
- 504 square feet from first floor offices and an unknown quantity from second floor offices of floor tiles;
- Additional 610 square feet of 12x12 gray and white floor tile;
- 900 square feet of gaskets and insulation from kilns and red kilns;
- 3000 square feet of building debris from the fire damaged section of the building
- An unknown quantity of Styrofoam with Black Mastic loose in bins.

#### **5.4 Lead-Paint Screening Results**

Additional lead sampling and survey activities were conducted in December 2008 to further assess the quantities of lead-based paint that may require special handling and disposal. In addition, locations with lead-based paint discovered during the September 2008 screening, as well as two new locations discovered during the December 2008 screening, were sampled and analyzed by EPA SW486 Method 1311 (TCLP) with lead analysis by EPA 7420 method. The results of the lead-paint screening activities are provided in the report included as Appendix F. The TCLP results of the lead analysis were as follows:

- Section #3 – interior brick wall: <0.2 mg/L
- Section #3 – interior block wall: 0.6 mg/L
- Section #3 – interior wood: 1.4 mg/L
- Section #1 and #2 – outer block wall: 2.0 mg/L
- Section #3 – outer block walls: 0.2 mg/L

The last two locations were discovered during the December 2008 screening. As the EPA standard for lead is 5 mg/L, the results of the analysis show that all of the materials

sampled are below regulatory limits. Therefore, these materials can be disposed of as demolition debris.

## **5.5 Visual Inspection Observations**

There is a sinkhole on the west side of the parking lot (REC 2), south of the gate, and north of the sewer manhole. The location was surveyed and is shown on Figure 2. There is only an eight inch hole in the asphalt, however, underground the sinkhole appears to be generally circular and has approximately a six foot diameter and a depth of approximately two feet.

Nearly all the interior walls in the southern portion of the building and in the Plating Area portion of the building show visible signs of smoke damage (REC 13).

The chemical storage room (REC 16) on the eastern side of the southern portion of the building near SB-13/MW-5 was visually inspected for potential environmental impacts. No significant staining or cracks were observed, however, much of the floor was covered with ice at the time of the site assessment.

The chemical storage area (REC 16) on the western side of the southern portion of the building was also inspected. No apparent cracks or stains were found, however, the floor was largely covered with debris. Empty or partially empty bottles of a biodegradable cleaner/degreaser were found suggesting the area may have been used to store cleaning supplies.

The tool room (REC 17) was visually inspected. No apparent cracks or stains were observed.

Visual inspection of the hydraulic lifts (REC 7) and loading dock area (REC 15) revealed no cracks or stains on the interior floor near the lifts. The southernmost lift alone showed signs of potential petroleum staining on the exterior of the lift and concrete. No staining was found on the exteriors of the other lifts.

## **5.6 Statistical Analysis of Select Remediation Results**

All soil sampling results obtained during the Phase II site assessment activities are summarized in Appendix G; all results obtained during the Phase III site assessment activities are summarized in Table 4 and Table 5.

The 95% UCL for mass concentrations of arsenic in the parking lot was calculated in accordance with the CTDEP's draft guidance document (October 5, 2000) to evaluate compliance with the RES DEC and I/C DEC. The parking lot (REC 2) is potentially underlain with historic fill. Arsenic was detected above RES DEC and I/C DEC in three of the 25 soil borings conducted in the parking lot (one boring from the Phase II investigation and two borings from the Phase III investigation). The concentrations of arsenic above the DEC in these three soil borings was less than two times the DEC, a requirement of the 95% UCL calculation.

Lead was detected at a concentration more than two times the RES DEC in the parking lot and therefore is not applicable to the 95% UCL calculation. There is also an insufficient number of lead sample results to qualify for the 95% UCL calculation.

ProUCL, a data evaluation program distributed by the EPA, was utilized to calculate the 95% UCL. This program calculates the 95% UCL for normal, gamma, and lognormal distributions. Data is entered into a spreadsheet and the program runs the statistical tests. The program then recommends the appropriate distribution type. The final calculation outputs of the program are included in Appendix I.

#### 5.6.1 Arsenic

A 95% UCL evaluation was required to comply with the RES DEC and I/C DEC criteria. Samples SB-2 (1-2 feet), SB-16 (6-20 inches) and SB-28 (6-15 inches) exceeded both exposure criteria but was less than two times the DEC standard. Sample SB-2 was conducted in the Phase II investigation, while samples SB-16 and SB-28 were conducted in the Phase III investigation. A total of 25 samples were analyzed and included in the calculation. Samples with non-detect concentrations of arsenic were input into the calculation with half of the value of the detection limit, per the guidance document's instructions. In addition, the higher value of duplicate samples was used where appropriate, to yield conservative results.

The 95% UCL calculation yielded an arithmetic mean arsenic result of 8.6 mg/kg, which is below both the RES DEC and I/C DEC of 10 mg/kg.



## **6.0 Data QA/QC**

### **6.1 QA/QC Samples**

QA/QC samples were collected as part of the investigation to allow for the evaluation of the precision, accuracy, and usability of data collected during the field effort. Details regarding the QA/QC measures are located in the Quality Assurance Project Plan (QAPP) Addendum for Phase III Environmental Site Assessment Progressive Plating Technologies, aka: Automatic Plating, 80 Hastings Street, Bridgeport, Connecticut (M&E, December 2008). The QAPP was approved by EPA prior to initiation of sampling activities.

#### **6.1.1 Field Quality Control Samples**

Quality control samples that were collected in the field and submitted to the laboratory along with the environmental samples are discussed in this section. The types of QC samples that were collected included the following: trip blanks, equipment blanks, and field duplicates. Method blanks and matrix spike/matrix spike duplicates (MS/MSDs) were analyzed by the laboratory on approximately one (1) per 20 batches for internal QA/QC purposes. A total of four (4) sample batches were submitted to the laboratory. Batch #22296 and #22297 consisted of soil samples, PCB wipes, and an equipment blank from the December 22 and 23 field sampling event. Batch #22446 consisted of groundwater samples and an equipment blank from the January 6, 2009 sampling event. Batch # 22297 consisted of a reactivation of soil samples for additional analysis.

##### ***Trip Blanks***

A trip blank was submitted with batch #22446. The analysis of this blank provided a baseline measurement of any VOC contamination that the samples may have been exposed to during transport. Each trip blank, was comprised of a sample container filled with high performance liquid chromatography organic-free water, preserved, handled like a sample, and sent to the laboratory for analysis.

##### ***Equipment Blanks***

An equipment blank was collected and submitted with batch #22446 and #22297. The analysis of these blanks serves to verify the cleanliness of the sampling equipment. An equipment blank is collected by rinsing decontaminated field equipment with deionized water, transferring the water to a sample container, and sending the sample for analysis. The equipment blanks were analyzed for the same parameters as the samples collected with that equipment.

##### ***Field Duplicates***

Field duplicates were collected for select samples in sample batches 22446, 22477, 22296, and 22297. Each duplicate was two (2) samples collected independently from one (1) sampling location during a single episode (within a reasonable timeframe) of sampling using the sample collection procedures that were used to obtain the original sample. Duplicates provide information about sample variability.

### ***Matrix Spike/Matrix Spike Duplicates***

Matrix spike and matrix spike duplicates (MS/MSDs) are a QC requirement performed by the laboratory. No additional soil or groundwater volumes were provided to the laboratory for any of the batch samples.

### ***Documentation and Review of Quality Control Activities***

Field QC samples were packed and delivered along with their corresponding environmental samples, and were noted on the chain of custody.

#### **6.1.2 Laboratory Quality Control Requirements**

Laboratory control samples were analyzed as necessary by the laboratory. Details on these can be found in the QAPP and in the laboratory analytical reports in Appendix G.

## **6.2 Data Validation and Usability / Analytical Precision and Accuracy**

Data validation consisted of evaluating the following items:

- Sample Holding Times
- Field, trip and laboratory blanks
- Field duplicate results
- Laboratory duplicate results
- Matrix spike/matrix spike duplicate results
- Laboratory control spike recoveries (metals only)
- Surrogate spike recoveries (organics only)

No data was rejected, but some detections and detection limits were qualified. The following is a description of how data was qualified (flagged) for each QC parameter when control limits are not met for sample data:

- **Holding Times:** If the holding time was exceeded, all positive results were flagged as estimated (J) and all non-detects will be flagged as estimated (UJ).
- **Calibration:** If the continuing calibration criteria are exceeded, all positive results were flagged as estimated (J) and all nondetects were flagged as estimated (UJ) if the bias was low.
- **Blanks:** When blank contaminants were detected, an action level of 5 times the blank contaminant concentration was set for the analytes, providing the analytes were not common laboratory contaminants. If the sample analyte concentration was greater than the action level, the concentration was reported unqualified. If the sample analyte concentration was less than the action level, the concentration was reported and flagged to be the qualified detection limit (U).
- **Sample Duplicate:** If laboratory or field duplicate analyses resulted in a relative percent difference (RPD) greater than 30% (aqueous) or 50% (soil), all positive results were flagged as estimated (J) and all nondetects were reported unqualified. If one value was nondetect and the other as above the detection limit, all positive

results were flagged as estimated (J) and all nondetects were flagged as estimated (UJ).

- **Matrix Spike/Matrix Spike Duplicates:** If the final results of the matrix spike were greater than the acceptable recovery range, all positive results were flagged as estimated (J) and all nondetects were reported unqualified. If the final results of the matrix spike were less than the acceptable range, all positive results were flagged as estimated (J) and all nondetects were flagged as estimated (UJ).

### **6.3 Data Usability Evaluation**

A summary of data qualifications is provided on Table 6 and qualification flags are shown on Tables 4 and 5. Although some analytical results were qualified due to issues such as matrix spike recovery being out of control limits, detections in method and field blanks and in field duplicates, none of the data qualifications render the data unusable.

## 7.0 Conceptual Site Model

A Conceptual Site Model (CSM) has been developed for the site. The objective of the CSM is to provide a representation of the nature and extent of contamination in soil and groundwater at the site that can be utilized to develop plans subsequent to environmental investigation for remediation. Table 8 presents a summary of the recognized environmental conditions, confirmed contaminants of concern (COCs) based on concentrations in soil exceeding the RDEC, I/C DEC, and GB PMC, and concentrations in groundwater exceeding SWPC. General recommendations for addressing the COCs are included for each of the RECs. These general recommendations are incorporated into the remediation requirements discussed further in Sections 8 and 9.

**Site History and Use.** As described in Section 3.0, the 80 Hastings site was historically utilized for industrial activities. Metal plating and associated plating waste treatment and storage operations were conducted on the site from approximately 1972 to 2000. Electrical transformers were located on the northwestern portion of the site. In addition, a subsurface vault is located on the southwestern portion of the site.

**Site Geology and Hydrogeology.** The depth of overburden soils is approximately 3 to 4 feet bgs, except in the central portion of the site. Urban fill consisting of ash, sand and gravel was also placed at this site prior to the development of the site.

Based on the interpolated bedrock topography, approximately 4 to 5 feet of bedrock may have been removed in the vicinity of the metal plating wastewater treatment subsurface vaults, in the central portion of the building, creating a man-made depression in the bedrock.

It appears that the groundwater table intersects the bedrock topographic surface on the western, northern, and southern sides of the site (see Figure 4). Only a thin veneer of groundwater was present on the eastern side of the site. Groundwater does not appear to migrate off-site to the west, north, and south; overburden groundwater migration appears to be insignificant to the east.

**Recognized Environmental Conditions.** Recognized environmental conditions (RECs) where activities that may have resulted in a release of petroleum or hazardous materials are identified on Table 8 and are shown on Figure 2. Each of the RECs on the site, except for the Off-Site Groundwater (REC 4), Residual Petroleum (REC 5), Freon (REC 10), Mold (REC 11), Fire Damage (REC 13), and Subsurface Drainage Structures (REC 18), were evaluated to estimate the nature and extent of contamination on the site. General recommendations for addressing site COCs and RECs are also included on Table 8.

The locations of soil and groundwater with exceedances of the CTRSR criteria are presented on Figures 3 and 4. A brief discussion of the potential sources of the COCs, migration pathways, and receptors is provided below.

**COCs and Sources of COCs.** Historical site operations, building materials, and fill materials constitute potential sources of contamination. The site operations were likely

conducted after filling had occurred, therefore the RECs related to historical site operations overlap onto the fill-related RECs creating a mosaic of RECs in portions of the site, such as the parking lot area located on the western end of the site. Contaminants of concern (COCs) identified in soil at the site include: petroleum hydrocarbons and ETPH, metals (primarily arsenic, and to a lesser extent, cadmium, chromium, thallium, lead, zinc, nickel, and copper) and cyanide.

The presence of COCs identified in soil at the site is related to site operations and history as follows:

- Metals (primarily arsenic, and to a lesser extent, cadmium, chromium, thallium, and lead) and cyanide contamination in REC 1 are attributable to the plating operations.
- COCs related to urban fill materials (REC 2) appear to be a source of metals (arsenic).
- Petroleum hydrocarbons, ETPH, and lead in REC 12 are potentially attributed to releases of fuel oil (sub-grade vault structure).
- Metals (arsenic) impacts in soil in the vicinity of the loading docks (REC 15) are potentially attributable to spills from the loading dock operations.
- Cyanide in soil near the cyanide storage area (REC 16) is potentially related to the historic spill which occurred in this storage area.

COCs in site groundwater (REC 3) include metals (cadmium, copper, lead, and zinc) and cyanide, near the former plating wastewater treatment structures beneath the central portion of the building. Groundwater in other wells was not able to be sampled and does not appear to be able to migrate off-site.

Building materials or equipment related to facility operations contain COCs and/or are impacted, or are potentially impacted as follows:

- Visible petroleum on the facility floor (REC 5) is likely related to spills from historic operations. Hydraulic oil may also be contained within the hydraulic lifts at the loading docks.
- Residual chemicals (REC 6) appear to be present as impacted materials on floors and in trenches, and plating equipment, within former plating areas.
- PCBs (REC 7) may be contained in light ballasts.
- Lead-based paint (REC 8), at non-hazardous levels, is present in some portions of the building.
- Asbestos-containing materials (REC 9) are present in a variety of building materials.
- Freon (REC 10) may be contained in air conditioning units.
- Mold (REC 11) may be present in the building interior.
- Concrete flooring (REC 14) in the areas where plating was formerly performed is impacted with metals.
- Subsurface drainage structures (REC 18) may contain contamination.

The primary human receptors at risk are people coming into direct contact with the contaminated soil and impacted building materials and surfaces. The site is vacant and fenced; therefore the exposure is limited to trespassers. The primary exposure pathways for the COCs in soil and in building materials/surfaces are inhalation, ingestion, and direct dermal contact, depending on what chemical form the COCs are in and how they are partitioned to various types of soil particulates. The primary migration

pathways are migration of the contaminants on wind blown dust particles or surficial runoff from precipitation. However, since much of the site is covered by the building or pavement, these migration pathways are limited.

Due to the site bedrock topography and site hydrogeology, significant off-site migration of groundwater from the site does not appear to be occurring. There is not a high potential for exposure to impacted groundwater originating from the site.

**Areas with Contaminants Exceeding RSR Criteria.** Locations where soil and concrete contain constituents above the R DEC, I/C DEC, and GB PMC are presented on Figure 3. A significant portion of soils beneath the building and concrete floor surfaces where plating operations were historically performed is likely impacted with metals.

The soil in the immediate vicinity of sub-grade vault, situated on the southern portion of the paved parking area, may contain urban fill materials. Fill materials consisting of ash and cinders were present at this location. ETPH and lead in exceedance of the RES DEC and GB PMC were again found in samples collected from this area (SB-32). A release may have occurred from the sub-grade vault structure.

The arsenic exceedances in the paved parking area appear to be mitigated by the 95% UCL, pending CTDEP approval of this calculation.

Revised RSRs appear to lead to additional exceedances of RSR criteria in soil within the parking lot area in the vicinity of the loading docks.

Several metals and cyanide were detected in groundwater at concentrations exceeding the SWPC in the central portion of the site, as depicted on Figure 4; however, the groundwater does not appear to significantly migrate off-site.

## 8.0 Conclusions

AECOM has completed a Phase III ESA of the Site. Soil and groundwater samples were collected from the RECs identified in the QAPP and listed below:

- Soil (RECs 1 and 2) – Subsurface soils due to cyanide and/or other metals and petroleum contamination from historic metal plating operations, spills, and/or seepage from floor drains or compromised sub-grade structures. In addition, historic fill is included here.
- Soil (REC 12) – Vault Structure - Subsurface soils due to potential impacts from the subgrade concrete vault structure.
- Soil (REC 15) – Loading Docks - Subsurface soils due to VOCs and/or other metals and petroleum contamination from spills.
- Soil (REC 16) – Chemical Storage Areas - Subsurface soils due to cyanide and/or other metals and petroleum contamination from spills and/or seepage from floor drains or compromised sub-grade structures.
- Chemicals may have been used or stored in the tool room (REC 17).
- Groundwater (REC 3) – Cyanide and/or other metals and petroleum contamination from historic metal plating operations and/or seepage from floor drains or compromised sub-grade structures.
- Lead based paint (LBP) (REC 8) – Due to the age of the Site, the potential exists for the presence of LBP.
- Potential Asbestos Containing Material (PACM) (REC 9) – Due to the age of the Site, PACM may be present.

Contamination issues based on the results of the Phase III ESA for these RECs are discussed below with respect to the RSRs.

### 8.1 Soil

#### **RECs 1 and 2, 15, 16 and 17**

These AOCs include the interior of the former metal plating facility where metal plating historically occurred (REC 1), chemical storage rooms (REC 16), tool room (REC 17) and the area in the vicinity of the loading docks (REC 15).

Urban fill materials (REC 2) characterized by ash, cinders, and brick fragments, mixed with brown sand was present throughout the site.

Bedrock was encountered (based on refusal of Geoprobe borings) at a depth of 2 to 4 ft bgs across the majority of the site except for the area in the vicinity of the former wastewater treatment area. The depth to bedrock near the former wastewater treatment area was approximately 9 ft bgs.

The subsurface soils beneath the Site (RECs 1 and 2) appear to have been impacted by the former metal plating facility and to a lesser extent by the use of historic fill material, as evidenced by the elevated metals concentrations and lesser impacts of PAHs in the soils. Based on data collected in the Phase II and Phase III ESAs, soil with metal

exceedances under the building floor is isolated from direct contact and from water infiltration by the building slab foundation. The floor can be sealed to environmentally isolate this soil.

Cyanide was not detected at a concentration above the CT RSR criteria at any boring locations used to evaluate chemical storage areas (REC 16). VOCs were not detected in the soil boring conducted in the tool room (REC 17).

During the Phase II ESA, arsenic, cadmium, chromium, and SPLP cadmium exceeded the GB pollutant mobility criteria at SB-5 (the location where MW-1 was installed), within the area of the former plating operations and wastewater treatment facility.

During the Phase II and III ESAs, metals were found to exceed the SWPC in MW-1 confirming results from the soil sampling.

Arsenic was detected in several samples inside the building and in the paved parking area. Arsenic was found at two locations (SB-16 and SB-28) to be in exceedance of the RES DEC and I/C DEC. Arsenic was detected during the Phase II ESA at a concentration above CT RSR criteria at the SB-2 location, which was used to evaluate the loading dock area (REC 15). During the Phase III ESA, no constituents above the CT RSR criteria was found in that area and no other constituents were detected above RES DEC. The arsenic is likely related to the site-wide urban fill. The 95% UCL calculation for arsenic in the paved parking area indicated that the soil can be considered to not exceed current CT RSRs.

### **REC 12 – Subgrade Vault**

Fill materials consisting of ash and cinders were present at this location. This area may contain urban fill materials.

ETPH and lead in exceedance of the RES DEC and GB PMC were again found in samples collected from this area (SB-32).

A release appears to have occurred from the sub-grade vault structure. This area could be remediated by focused excavation of the vault and surrounding soil to remediate ETPH and lead.

## **8.2 Groundwater**

### **REC 3 – Site-Wide Groundwater**

The results of the groundwater sampling from MW-1, installed during the Phase II ESA, indicate that the groundwater, at least in the area of the monitoring well, has been impacted by the former metal plating operations. It appears this monitoring well is located in a bedrock depression created during the construction of the building. The groundwater sample contained cadmium, copper, lead, zinc, and SPLP cyanide at concentrations in exceedance of the CTRSR SWPC. No VOCs were detected in the groundwater sample. The groundwater in this area could be remediated by extracting it and disposing it off-site, and/or isolating it using an impermeable vertical barrier. The



groundwater beneath the building may already be contained by the foundation of the building.

Four additional groundwater wells were installed at the site during the Phase III ESA; however, none were able to be sampled. Groundwater elevations were measured in all but one of them. Groundwater elevations indicate that water is likely flowing away from the center of the site and into bedrock, as groundwater at the western and eastern edges of the property (MW-4 and MW-3, respectively) was detected just above the bedrock elevation. Groundwater at these locations contained a significant amount of sediment. There was also virtually no groundwater recharge as the peristaltic pump ran dry within minutes of operation. Groundwater at the southern edge of the property at MW-5 was not present. Based on the intersection of the bedrock surface and groundwater table on the west, north, and south sides of the facility, as well as a very thin veneer of groundwater on the east side, it appears that overburden groundwater migration off-site is relatively minimal.

#### **REC 4 – Off-Site Groundwater**

Based on the findings in REC 3, there appears to be no impact to the site from off-site groundwater. Overburden groundwater does not appear to migrate onto the site.

### **8.3 Asbestos Containing Materials**

#### **REC 9**

Several different types of asbestos-containing materials (ACM) are present in the building at several locations. Additional testing was performed during the Phase III ESA to further evaluate suspected materials and refine the estimate of quantities of ACM. Details of interior and exterior ACM and the total estimated quantities are contained in Hygenix's report found in Appendix E. ACM could be removed during demolition or redevelopment activities.

### **8.4 Lead-Based Paint**

#### **REC 8**

Lead-based paint was identified via XRF field screening during the Phase II and III ESAs. Five chip samples were collected in these areas and submitted for TCLP lead analysis. All TCL P sample results were below the EPA hazardous level of 5.0 mg/L. The lead-based paint containing materials can be disposed of as unregulated demolition debris.

## **8.5 Other Recognized Environmental Conditions**

### **REC 5 — Residual Petroleum**

This REC will be addressed during site remediation and redevelopment. Hydraulic oil in lifts will be appropriately characterized and disposed off-site during site remediation and redevelopment.

### **REC 6 — Residual Chemicals**

This REC will be addressed during site remediation and redevelopment. Residual chemicals on building interior flooring and surfaces, as well as in former metal plating equipment will be appropriately characterized and disposed off-site during site remediation and redevelopment. Equipment remaining in the facility will be appropriately decommissioned and disposed off-site.

### **REC 7 — PCBs**

No PCBs were found to exceed the CT RSRs in the soil samples and wipe sample collected near the former transformers and loading dock lifts (soil boring SB-14). Light ballasts in the southern storage area and eastern office areas will be appropriately disposed off-site during site redevelopment.

### **REC 10 — Freon**

This REC will be addressed during site redevelopment. Air conditioning units can be disposed of off-site conventionally.

### **REC 11 — Mold**

This REC will be addressed during site redevelopment. Mold can be addressed conventionally.

### **REC 13 — Fire Damage**

Fire damage including smoke staining was documented. This REC will be addressed during site redevelopment. Smoke damage can be addressed conventionally.

### **REC 14— Impacted Concrete**

This REC will be addressed during site remediation and redevelopment. Concrete from the former plating section of the building could potentially be remediated by pouring a new slab over the existing slab.

### **REC 17 — Tool Room**

No VOCs were detected in the soil boring performed in the area (SB-33). The floor appears to be intact and a release has not been identified.

### **REC 18 — Subsurface Drainage Structures**

This REC will be addressed during site remediation and site redevelopment. Subsurface drainage structures will be cleaned, assessed, and sealed or removed during site remediation and redevelopment.

## **8.6 Revised CTRSRs**

Exceedances of the proposed revised CTRSR criteria for soil samples, including samples conducted during the Phase II investigation, are provided in Table 7. Several new exceedances of the RSRs for metals within the Phase II and III borings are anticipated to occur.

It is not anticipated that there will be significant changes to the exceedances of RSR criteria for groundwater based on the revised RSR criteria

Changes to the exceedances of the proposed revisions to the RSRs for only Phase III borings are as follows:

- The arsenic and ETPH standards were not changed in the proposed revisions to the RSRs, therefore exceedances to these standards would likewise remain unchanged.
- While the mass standard for lead did not change in the proposed revisions, the GB PMC standard was raised from 0.15 mg/L to 120 mg/L. Therefore, sample SB-32 would no longer exceed the GB PMC under the proposed revisions. The cadmium RES DEC standard was lowered from 34 mg/kg to 1.4 mg/kg in the proposed revisions to the RSRs; therefore, cadmium was detected in two samples at concentrations exceeding the revised RES DEC: SB-16 (6-20 inches) at 5.38 mg/kg and SB-16 DUP (6-20 inches) at 8.05 mg/kg.
- Similarly, the nickel RES DEC standard was lowered from 1,400 mg/kg to 45 mg/kg in the proposed revisions; therefore, nickel was detected in the two samples at concentrations exceeding the revised RES DEC: SB-16 at 64.3 mg/kg and SB-16 DUP at 76.7 mg/kg.
- Neither cadmium nor nickel exceeded the existing RES DEC.

Exceedances of the proposed revisions to the RSRs for groundwater samples are provided in Table 7 and as follows:

- The SWPC standards for cadmium, copper, lead, and zinc were all lowered in the proposed revisions to the RSRs. Therefore, exceedances to these standards would remain in effect.
- The SWPC standard for nickel was lowered from 880 µg/L to 290 µg/L; therefore, nickel was detected in MW-1 and MW-1 DUP at a concentration of 411 µg/L and 405 µg/L, respectively, above the revised SWPC.
- The SWPC for total cyanide was not changed in the revisions to the RSRs, therefore both samples are still in exceedance of the SWPC.
- No standard for ETPH exists for the revised I/C VC, RES VC, and SWPC.

## 9.0 Potential Remediation Requirements

The Regulations of Connecticut State Agencies (RCSA) Sections 22a-133k-1 through 22a-133k-3, inclusive, comprise the Connecticut Remediation Standard Regulations (RSRs). The RSRs apply to sites that meet the definition of “establishment” in the Connecticut Transfer Act. The RSRs also apply to sites undergoing voluntary remediation under Connecticut General Statutes Sections 22a-133x (which includes sites owned by municipalities) and 22a-133y and to sites under an order. The CT DEP suggests that the RSRs be used for guidance on sites that do not fit these two categories and are undergoing investigation or remediation.

Based on the findings of the Phase I ESA (M&E, July 2008), the site does appear to meet the definition of “establishment.” The site is not currently in the voluntary remediation program and is not under an order. Due to the site being an establishment, the RSRs are applicable to the site. However, certain remediation funding sources, such as the EPA Brownfields Cleanup Grants, require that the site be entered into CGS Section 22a-133x Voluntary Remediation Program. Additional site characterization is necessary, including the investigation of spills and impacted materials in the concrete slab area. Therefore, detailed remediation planning is recommended as the next step. It is recommended that general remediation concepts be discussed presently to help plan future activities. Provided below is a general discussion of RSR remediation requirements.

**General Soil Remediation Requirements.** Soil with concentrations of COCs exceeding the GB PMC which is not “environmentally isolated” must be remediated to the seasonal high water table. Soil with concentrations of contaminants exceeding the RES DEC and/or I/C DEC must be remediated to a depth of 15 feet of the ground surface or rendered “inaccessible”.

“Environmentally isolated soil” is defined as polluted soil which is (A) beneath an existing building or another existing and permanent structure which the Commissioner has determined in writing would prevent the migration of pollutants; (B) not a continuing source of pollution; (C) not polluted with volatile organic substances, or if polluted with such substances, the concentration of such substances has been reduced to the maximum extent prudent; and (D) above the seasonal high water table. [22a-133k-1(a)(15)]

The pollutant mobility criteria (“PMC”) do not apply to environmentally isolated soils, provided an environmental land use restriction (“ELUR”) is in effect that ensures that such soil will not be exposed to infiltration of soil water due to demolition of the building or structure. [22a-133k-2(c)(4)(B)]

Environmentally isolated soils are also considered “inaccessible”, thereby addressing direct exposure criteria (DEC) exceedances. The RSRs define “inaccessible soils” as polluted soil which is: (A) more than four feet below the ground surface; (B) more than two feet below a paved surface comprised of a minimum of three inches of bituminous concrete or concrete, which two feet may include the depth of any material used as sub-base for the pavement; or (C)(i) beneath an existing building or (ii) beneath another existing permanent structure provided written notice that such structure will be used to

prevent human contact with such soil has been provided to the CTDEP. Therefore, soils that exceed DEC may be addressed by covering them with clean fill and/or a paved surface ("rendered inaccessible"). If soils that exceed DEC are rendered inaccessible, an ELUR would have to be recorded on the municipal land records.

An ELUR for the RES DEC would restrict future residential use or the future disturbance of the area, unless remediation to comply with the RES DEC was completed. An ELUR for I/C DEC would restrict future disturbance of the affected soil.

The RSRs allow for the use of an "engineered control" to effectively eliminate migration of contaminants that exceed the pollutant mobility criteria or to render soil that exceeds DEC inaccessible. For the subject site, it is recommended that a redevelopment plan be developed that considers the soil contamination at concentrations exceeding the RES DEC, I/C DEC and GB PMC. The plan could incorporate the utilization of the building and paved surfaces such as parking lots and driveways to cap the contaminated materials. However, soil within the parking lot area could also be addressed using statistical analysis of the 95% UCL and focused excavation of the sub-grade vault area. An ELUR would also be required.

If an engineered control is utilized, prior to using the engineered control as a remedial measure, CTDEP approval is required. In approving the use of an engineered control at the subject sites, the CTDEP would consider the following conditions: 1) remediation of the waste material is not technically practical; 2) the removal of contaminated soil would create an unacceptable risk to human health; 3) and/or the cost of remediation is significantly greater than the cost of an engineered control. Requirements are stipulated for the installation of an engineered control and are completely described in the RSRs. Prior to approval, the CTDEP would likely also consider the frequency and extent to which the site is flooded and how the engineered control is designed to withstand issues related to flooding. In order to implement an engineered control, a report must be submitted to CTDEP summarizing the proposed engineered control and the maintenance and monitoring which will be conducted as part of the engineered control system. A public notice and comment period is also required, and an ELUR would have to be recorded.

**Groundwater Remediation Requirements.** VOCs were not detected in groundwater above RSR volatilization criteria. If VOCs are not present in the groundwater above RSR volatilization criteria or if vadose zone soil vapor is not impacting the building, vapor intrusion mitigation measures are not required to address VOCs.

The RSRs require that groundwater at this site be remediated to meet the requirements of the SWPC. Given the fact that the potential downgradient receiving surface water bodies are approximately 1,000 ft (eastward) and 3,000 ft (westward) away from the site, natural attenuation of the constituents which were detected at concentrations exceeding SPWC may reduce the concentrations of these constituents to concentrations below the SWPC. Active remediation of groundwater may not be required; however, natural attenuation monitoring would likely be required. The RSRs allow for the calculation of alternate surface water protection criteria. The calculation of the alternate criteria would likely require additional site specific groundwater information, information concerning the receiving water body, as well as the nature and extent of the contaminant plume. CTDEP approval of the alternative SWPC is required.

Groundwater may also be removed and disposed off-site and/or contained within the source area. In both cases, post-remediation monitoring of the groundwater would be required.

## 10.0 Data Gaps and Recommendations

Based on the results of this Phase II and Phase III ESAs, no further action is recommended for the following RECs:

- REC 4 – Off-Site Groundwater
- REC 15 - Parking lot area related to exceedances of RSR criteria for arsenic
- REC 17 – Tool Room

Based on the sampling completed to date during the Phase II and Phase III ESAs, several data gaps remain. However, it is anticipated that these data gaps can be addressed during site remediation and redevelopment. It is recommended that the following data gaps can be addressed just prior to or during site development activities:

- During site remediation and redevelopment activities which may include removal of hydraulic lifts (REC 5 and 15), visual observation of potential soil staining should be made. Any hydraulic oil that may be present in the lifts should be collected and appropriately characterized and disposed off-site. Petroleum-based oils appear to be present as spills on the former facility floor and should be appropriately collected, characterized, and disposed off-site.
- Solids such as sludges, precipitates, and filter cake are visually present on interior facility floors and in floor trenches situated within the former main plating production area, within the former metal plating wastewater treatment tanks, and may also be within former plating equipment and the former laboratory located on-site. These solids likely contain residual chemicals (REC 6) such as cyanide and heavy metals. Other chemicals that are present within the building may also include residual liquids, acidic and/or basic solutions and metals-containing solutions. These residual chemicals should be appropriately characterized and disposed off-site during site remediation and redevelopment.
- Additional sampling of light ballasts (REC 7) for PCBs may be required to determine proper disposal during redevelopment. Based on the data collected during the Phase III ESA, a release from the former transformers to the surrounding soils does not appear to have occurred.
- Subsurface drainage structures should be assessed, cleaned, and sealed or removed during site remediation and redevelopment activities. This may include the collection of soil samples around the drainage structures (REC 18).

Bedrock groundwater may be considered a data gap. However, groundwater is classified as GB and there are no public water supply wells within one mile of the site.

Based on the results of the Phase II and Phase III ESA and anticipated future site use as an industrial/commercial facility, site remediation/redevelopment of the site can potentially include the following approaches:

- Lead-based paint (REC 8) can be conventionally addressed during redevelopment. In addition, based on the TCLP testing of LBP materials performed during the Phase III ESA, these materials may be disposed off-site as non-hazardous demolition debris.
- Asbestos-containing materials (REC 9) can be appropriately handled and disposed off-site.
- Air conditioning units that potentially contain freon (REC 10) may be disposed conventionally via proper disposal.

- Mold (REC 11) and smoke-damaged surfaces on building interior surfaces may be addressed conventionally via cleaning. Environmentally isolate and render inaccessible metals-impacted soil beneath the building (RECs 1 and 2) by keeping the structure in place. A new concrete slab can be poured over the existing slab to seal the slab. The CTDEP would need to approve this structure as an engineered control.
- Render contaminated concrete (RECs 5 and 6) inaccessible within the building by pouring a new concrete slab over the existing slab to seal the slab. The CTDEP would need to approve this as an engineered control.
- Excavate the subgrade vault structure (REC 12) and the lead and ETPH-impacted soil area around the vault structure and dispose of soil off-site. Post-remediation confirmation sampling would be required during excavation to ensure all soil exceeding remediation criteria was removed. After backfill, the excavation area would be re-paved to match surrounding existing conditions.
- Groundwater (REC 3) in the vicinity of monitoring well MW-1 at the approximate center of the former plating operations of the facility require remedial action based on the exceedance of CT RSR SWPC.
  - Based on Geoprobe refusal and interpolated bedrock depths, it appears that MW-1 is located in an area where the bedrock is deeper than the surrounding area.
  - The bedrock may have been excavated during construction activities in order to construct the metal plating wastewater treatment holding tanks.
  - Impacted groundwater may be addressed using one or more of the following approaches:
    - The depressed bedrock area could be dewatered and the removed contaminated water disposed appropriately off-site.
    - The area of impacted groundwater could be isolated from the surrounding shallower bedrock through the construction of an impermeable vertical wall (concrete, slurry, sheet piling, etc.) extending from the ground/floor surface down to competent bedrock. (The existing building foundation may already be acting as a vertical barrier if it is keyed into the bedrock surface.)
    - Monitored natural attenuation of groundwater could be conducted.
  - If a new concrete slab is poured over the existing concrete slab, the depressed bedrock will be hydraulically isolated and no water will accumulate in that area.
  - It appears that groundwater does not significantly migrate off-site.
  - Post-remediation groundwater monitoring will be required. However, given the lack of overburden groundwater, an alternative monitoring program may be approved by CTDEP.

In addition, all handling and disposal of asbestos-containing, lead-based containing materials, and equipment requiring decommissioning be performed in accordance with all applicable local, state, and federal regulations, as well as by appropriately licensed professionals.

It is recommended that any proposed remedial approach be discussed with CTDEP prior to development of the remedial plans. The remedial approach may require CTDEP approval.



## **11.0 References**

Metcalf & Eddy, Inc., July 2008. Phase I Environmental Site Assessment, Progressive Plating Technologies AKA: Automatic Plating, 80 Hastings Street, Bridgeport, Connecticut.

Metcalf & Eddy, Inc., August 2008. Quality Assurance Project Plan for Phase II Environmental Site Assessment, Progressive Plating Technologies AKA: Automatic Plating, 80 Hastings Street, Bridgeport, Connecticut.

Metcalf & Eddy, Inc., October 2008. Phase II Environmental Site Assessment, Progressive Plating Technologies AKA: Automatic Plating, 80 Hastings Street, Bridgeport, Connecticut.

Metcalf & Eddy, Inc., December 2008. Quality Assurance Project Plan for Phase III Environmental Site Assessment, Progressive Plating Technologies AKA: Automatic Plating, 80 Hastings Street, Bridgeport, Connecticut.

State of Connecticut Department of Environmental Protection (CTDEP). 1996. Remediation Standard Regulations. Section 22a-133k-1). January 1996.

## Tables

## Figures

## Appendices

## **Appendix A**

### **Statement of Limitations**

## STATEMENT OF LIMITATIONS

The data presented and the opinions expressed in this report are qualified as follows:

1. The sole purpose of the investigation and of this report is to assess the physical characteristics of the Site with respect to the presence or absence in the environment of oil or hazardous materials and substances as defined in the applicable state and federal environmental laws and regulations and to gather information regarding current and past environmental conditions at the Site.
2. Metcalf & Eddy (M&E) derived the data in this report primarily from visual inspections, examinations of records provided by the Client, interviews with individuals with information about the Site, and a limited number of subsurface explorations made on the dates indicated. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report.
3. In preparing this report, M&E has relied upon and presumed accurate certain information (or the absence thereof) about the Site and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, M&E has not attempted to verify the accuracy or completeness of any such information.
4. The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Services, including the extent of subsurface exploration and other tests. The Scope of Services was defined by the requests of the Client, the time and budgetary constraints imposed by the Client, and the availability of access to the Site.
5. Because of the limitations stated above, the findings, observations, and conclusions expressed by M&E in this report are not, and should not be considered, an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Further, such data, findings, observations, and conclusions are based solely upon site conditions in existence at the time of investigation.
6. This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the Agreement and the provisions thereof.

**Table 1**  
**Summary of Soil and Groundwater Samples**  
**80 Hastings Street**  
**Bridgeport, CT**  
**AECOM Environment**

	Soil Borings			Groundwater Monitoring Wells			TOTAL #		QA/QC SAMPLES				
	Number of Locations	Number of Mass Analysis Samples	Number of TCLP/SPLP Samples	Number of Locations	Number of Mass Analysis Samples		Number of Locations	Number of Samples	Trip Blanks (1)	Equipment Blanks (2)	Field Duplicates (3)	MS/MSD	Total
Soil													
PCBs (SW-846 Method 8082)**	2	2	0				2	2	0	1	1	0	4
Volatile Organics (EPA 5035A/8260b)	2	2	0				2	2	0	1	1	0	4
Extractable Total Petroleum Hydrocarbons (CTETPH)	4	4	0				4	4	0	1	1	0	6
PP 13 Metals(EPA 6020) (SPLP 1312)	1	1	1				1	2	0	1	1	0	4
Lead (EPA 7010) (TCLP 1311)	2	2	2				2	4	0	1	1	0	6
Arsenic (EPA 7061a)	22	25	3				22	28	0	1	2	0	31
Hexavalent chromium (3060a)	1	1	0				1	1	0	0	1	0	2
Groundwater													
Hexavalent chromium (3060a)				1	1		1	1	0	1	1	0	3
Extractable Total Petroleum Hydrocarbons (CTETPH)				1	1		1	1	0	1	1	0	3
Volatile Organics (EPA 8260b)				1	1		1	1	1	1	1	0	4
PP 13 Metals(EPA 6000/7000)				1	1		1	1	0	1	1	0	3
Cyanide (EPA 335.2)				1	1		1	1	0	1	1	0	3

Notes:

1. Trip blanks were submitted with each batch of groundwater samples for volatile organic analysis (one per day).
2. Equipment blanks were submitted 1 per 20 samples.
3. Field duplicates were submitted 1 per 20 samples.
4. 79 samples were collected for PLM analysis of asbestos content (Analysis by Method EPA 600/R-93/116)
5. Screening of building surfaces was conducted for lead-based paint using a portable XRF. 5 samples were analyzed for TCLP lead.
6. One PCB wipe sample and one QA duplicate PCB wipe sample were collected from the former transformer pad surface and were submitted for PCB analysis (Analysis by Method EPA 8082)

**Table 2**  
**Soil Boring and Bedrock Elevations, and Depths to Bedrock**  
**80 Hastings Street**  
**Bridgeport, CT**  
**AECOM Environment**

ID	Location on Site	Grade Elevation (ft) (4)	Estimated Depth to Bedrock (fgs)	Estimated Bedrock Elevation (ft)
SB-1	prkng lt/vault	NA	NA	NA
SB-2	prkng lt/ldng dck	NA	NA	NA
SB-3	int. NW plating	NA	NA	NA
SB-4	int. W plating	54.01	1.5	52.51
SB-5	int. sludge tank	53.92	9	44.92
SB-6	int. central	53.86	7	46.86
SB-7	int. E	54.20	3	51.20
SB-8	int. NE	55.01	2	53.01
SB-9	int. S plating	53.97	4	49.97
SB-10	int. north	53.99	3	50.99
SB-11	asylum street	50.57	3.5	47.07
SB-12	parking lot	51.65	4.5	47.15
SB-13	SE chem. storage	53.60	2.5	51.10
SB-14	parking lot	55.01	6	49.01
SB-15	parking lot	54.67	3	51.67
SB-16	parking lot	54.39	3.5	50.89
SB-17	parking lot	54.18	9	45.18
SB-18	parking lot	53.18	NA	NA
SB-19	parking lot	52.18	3.8	48.38
SB-20	parking lot	52.58	2	50.58
SB-21	parking lot	52.15	4	48.15
SB-22	parking lot	52.08	3	49.08
SB-23	parking lot	52.31	8	44.31
SB-24	parking lot	52.42	2.5	49.92
SB-25	parking lot	52.77	3	49.77
SB-26	parking lot	52.25	4	48.25
SB-27	parking lot	53.50	4	49.50
SB-28	parking lot	52.01	2.5	49.51
SB-29	parking lot	52.01	4	48.01
SB-30	prkng lt/vault	51.91	4	47.91
SB-31	parking lot	51.98	6	45.98
SB-32	prkng lt/vault	51.79	3.5	48.29
SB-33	tool room	53.75	5	48.75
SB-34	parking lot	52.60	4	48.60
SB-35	parking lot	52.37	5.5	46.87
SB-36	parking lot	52.66	4	48.66

Notes:

Survey work completed by D Nafis & Young Engineers, Inc. (December 2008).

NA - Not available

FT BGS = Feet Below Ground Surface



**Table 3**  
**Monitoring Well Construction Details**  
**80 Hastings Street**  
**Bridgeport, CT**  
**AECOM Environment**

ID	Location on Site	Grade Elevation (ft) (4)	Inner Casing Elevation (PVC) (FT)	Total Well Depth (ft bgs)	Screened Interval (ft)	Depth to Groundwater 1/2009 (FT)	Groundwater Elevation 1/2009 (FT)	Estimated Depth to Bedrock (ftbgs)	Estimated Bedrock Elevation (ft)	Well Diam. (inch)
MW-1	sludge tank	53.92	53.66	9	0.8-8.8	2.26	51.66	9	44.92	1
MW-2	plating north	53.99	53.91	3	1-3	2.15	51.84	3	50.99	1
MW-3	asylum street	50.57	50.49	3.5	1-3.5	2.55	48.02	3.5	47.07	1
MW-4	pkng lt/ ldng dck	51.65	51.39	4.5	1.5-4.5	3.71	47.94	4.5	47.15	1
MW-5	chem. stor. rm. SE	53.6	53.48	2.5	0.25-2.5	NA	NA	2.5	51.1	1

Notes:

Survey work completed by Nafis & Young Engineers, Inc. (December 2008).

Measuring point is top of PVC for all wells

NM - Not measured

NA - Not available/not applicable

FT BGS = Feet Below Ground Surface

Depth to water was measured at all wells on 1/6/2009

\* Depth to bottom remeasured 1/6/2009.

Table 4  
Summary of Soil Sample Analytical Results  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSRs			Revised CT RSRs			SAMPLING LOCATION																					
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-12		SB-12d	SB-13	SB-13 DUP	SB-14	SB-14 DUP	SB-15	SB-16		SB-16 DUP		SB-17	SB-18	SB-19	SB-20	SB-21		SB-22	SB-23	SB-24	SB-25
							12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08
Sampling Date							LIMIT-22296	LIMIT-22477	LIMIT-22297	LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22297	LIMIT-22296	LIMIT-22296	LIMIT-22477	LIMIT-22297	LIMIT-22477	LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22477	LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22296
Laboratory Report Number																												
8082 drywt (mg/kg dry wt)																												
PCB 1016	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	<0.121	<0.124	<0.114	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
PCB-1221	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	<0.121	<0.124	<0.114	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
PCB-1232	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	<0.121	<0.124	<0.114	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
PCB-1242	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	<0.121	<0.124	<0.114	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
PCB-1248	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	<0.121	<0.124	<0.114	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
PCB-1254	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	<0.121	<0.124	0.156j	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
PCB-1260	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	<0.121	<0.124	<0.114	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
PCB 1262	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	<0.121	<0.124	<0.114	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
PCB 1268	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	<0.121	<0.124	<0.114	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
8260 solid (mg/kg)																												
Acetone	1,000	500	140	1,000	500	1,000	NT	NT	NT	<0.27uj	<0.18uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Acrylonitrile	11	1.1	0.1	10.6	0.12	0.048	NT	NT	NT	<0.016uj	<0.011uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
tert-Amylmethyl Ether	~	~	~	~	~	~	NT	NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Benzene	200	21	0.2	57.2	0.7	2.5	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Bromobenzene	~	~	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Bromochloromethane	~	~	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Bromodichloromethane	92	9.9	0.11	92.0	1.1	0.04	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Bromoform	720	78	0.8	715.4	8.3	248	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Bromomethane	1,000	95	2	1,000.0	33.9	0.1	NT	NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Butanone (MEK)	1,000	500	80	1,000	500	1,000.0	NT	NT	NT	<0.11uj	<0.069uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butyl Alcohol	~	~	~	~	~	~	NT	NT	NT	<0.11uj	<0.069uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
n-Butylbenzene	1,000	500	14	1,000	500	2.0	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
sec-Butylbenzene	1,000	500	14	1,000	500	2.0	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylbenzene	1,000	500	14	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
tert-Butylethyl Ether	~	~	~	~	~	~	NT	NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon Disulfide	1,000	500	140	1,000	500	30.0	NT	NT	NT	<0.016uj	<0.011uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon Tetrachloride	44	4.7	1	44	3.2	0.1	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chlorobenzene	1,000	500	20	1,000	500	43.0	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chlorodibromomethane	68	7.3	0.1	~	~	~	NT	NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroethane	~	~	~	1,000	500	237.0	NT	NT	NT	<0.054uj	<0.035uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloroform	940	100	1.2	1,000	67.7	2.0	NT	NT	NT	<0.011uj	<0.007uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloromethane	440	47	0.54	1,000	176.1	3.0	NT	NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Chlorotoluene	~	~	2	1,000	135.5	4.0	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4-Chlorotoluene	~	~	2	1,000	135.5	3.6	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dibromo-3-Chloropropane	4.1	0.44	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dibromoethane	0.067	0.007	0.1	~	~	~	NT	NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dibromomethane	~	~	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dichlorobenzene	1,000	500	3.1	1,000	500	46.0	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,3-Dichlorobenzene	1,000	500	120	1,000	67.7	2.4	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,4-Dichlorobenzene	240	26	15	143.1	10.5	18.8	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	NT	NT	NT	<0.011uj	<0.007uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichlorodifluoromethane	~	~	~	~	~	2.0	NT	NT	NT	<0.054uj	<0.035uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1-Dichloroethane	1,000	500	14	1,000	500	15.0	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dichloroethane	63	6.7	0.2	63	0.7	0.12	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1-Dichloroethylene	9.5	1.0	1.4	1,000	500	2.3	NT	NT	NT	<0.011uj	<0.007uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
cis-1,2-Dichloroethylene	1,000	500	14	1,000	500	18.6	NT	NT	NT	0.009	0.009	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
trans-1,2-Dichloroethylene	1,000	500	20	1,000	500	10.7	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2-Dichloropropane	~	~	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,3-Dichloropropane	~	~	~	~	~	~	NT	NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2,2-Dichloropropane	~	~	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1-Dichloropropene	~	~	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
cis-1,3-Dichloropropene	32	3.4	0.1	57.2	0.7	0.1	NT	NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
trans-1,3-Dichloropropene	32	3.4	0.1	57.2	0.7	0.1	NT	NT	NT	<0.003uj	<0.002uj																	

Table 4  
Summary of Soil Sample Analytical Results  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSRs			Revised CT RSRs			SAMPLING LOCATION																					
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-12		SB-12d	SB-13	SB-13 DUP	SB-14	SB-14 DUP	SB-15	SB-16		SB-16 DUP		SB-17	SB-18	SB-19	SB-20	SB-21		SB-22	SB-23	SB-24	SB-25
Sampling Date							12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08
Sample Depth																												
Laboratory Report Number							LIMIT-22296	LIMIT-22477	LIMIT-22297	LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22297	LIMIT-22296	LIMIT-22296	LIMIT-22477	LIMIT-22297	LIMIT-22477	LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22477	LIMIT-22296	LIMIT-22296	LIMIT-22296
1,1,1,2-Tetrachloroethane	220	24	0.2	220	2.5	0.08	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,2,2-Tetrachloroethane	29	3.1	0.1	29.0	2.3	0.028	NT	NT	NT	<0.003uj	<0.002uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene	110	12	1	10.6	0.8	1.6	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrahydrofuran	~	~	~	753.1	55.0	9.9	NT	NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Toluene	1,000	500	67	1,000.0	453.9	117.5	NT	NT	NT	0.010	0.006	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichlorobenzene	~	~	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trichlorobenzene	2,500	680	14	1,000.0	500	2.4	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,1-Trichloroethane	1,000	500	40	1,000	500	51.0	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,2-Trichloroethane	100	11	1	100.0	7.3	0.2	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Trichloroethylene	520	56	1	64.3	0.7	0.52	NT	NT	NT	0.013	0.004	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Trichlorofluoromethane	1,000	500	260	1,000	500.0	35.0	NT	NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,3-Trichloropropane	~	~	~	~	~	~	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	~	~	~	NT	NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,2,4-Trimethylbenzene	1,000	500	70	1,000	500	2.4	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	1,000	500	70	1,000	500	1.9	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Vinyl Chloride	3.0	0.32	0.4	8.0	0.1	38.0	NT	NT	NT	<0.027uj	<0.018uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
m + p Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	NT	<0.011uj	<0.007uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
o-Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	NT	<0.006uj	<0.004uj	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
depth dry weight (mg/kg dry weight)																												
Extractable TPH (ETPH)	2,500	500	2,500	~	~	2,500	NT	110.0	NT	NT	NT	NT	NT	NT	450	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
metals(13pp)icp (mg/kg dry wt)																												
Antimony	8,200	27.0	~	8,176.0	271.0	~	NT	NT	NT	NT	NT	NT	NT	NT	<4.46	NT	<4.60	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Arsenic	10.0	10.0	~	10.0	10.0	~	7.74	NT	5.43	NT	NT	8.91	NT	<2.85	9.89	NT	10.21+	NT	5.10	6.29	6.17	5.31	8.92	NT	6.95	7.83	6.31	6.14
Beryllium	2.00	2.00	~	408.8	13.6	~	NT	NT	NT	NT	NT	NT	NT	NT	0.66	NT	0.63	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium	1,000	34.0	~	40.9	1.4	~	NT	NT	NT	NT	NT	NT	NT	NT	5.38	NT	8.05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	233j	NT	644j	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium, hexavalent	100	100	~	613.2	20.3	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	12.2	NT	15.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium, trivalent	51,000	3,900	~	50,000.0	50,000.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Copper	76,000	2,500	~	20,440.0	677.4	~	NT	NT	NT	NT	NT	NT	NT	NT	48.00	NT	55.40	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	1,000	400	~	1,000	400	~	NT	NT	NT	NT	NT	NT	NT	NT	94j	NT	189j	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	610	20.0	~	613.2	20.3	~	NT	NT	NT	NT	NT	NT	NT	NT	0.07	NT	0.11	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nickel	7,500	1,400	~	1,363.0	45.0	~	NT	NT	NT	NT	NT	NT	NT	NT	64.30	NT	76.70	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Selenium	10,000	340	~	10,220.0	340.0	~	NT	NT	NT	NT	NT	NT	NT	NT	<5.58	NT	<5.75	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Silver	10,000	340	~	10,220.0	340.0	~	NT	NT	NT	NT	NT	NT	NT	NT	<0.56	NT	<0.58	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Thallium	160	5.40	~	163.5	5.4	~	NT	NT	NT	NT	NT	NT	NT	NT	<3.35	NT	<3.45	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Zinc	610,000	20,000	~	50,000	20,322.6	~	NT	NT	NT	NT	NT	NT	NT	NT	126	NT	131	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
solids (percent) (%)																												
Solids, total	~	~	~	~	~	~	85.1	NT	91.3	NT	NT	82.8	81.3	88.0	89.7	NT	87.1	NT	92.1	92.6	94.9	90.0	88.6	NT	94.6	85.6	88.8	94.4
spip - arsenic (mg/l leachate)																												
Arsenic	~	~	0.1	~	~	0.05	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.010	NT	NT	NT	NT	NT	<0.010	NT	NT	NT	NT	NT
spip - cd low (mg/l leachate)																												
Cadmium	~	~	0.05	~	~	0.015	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.005	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
spip - chromium (mg/l leachate)																												
Chromium	~	~	0.5	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
spip - copper (mg/l leachate)																												
Copper	~	~	13	~	~	0.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.01	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
spip - lead icp (mg/l leachate)																												
Lead	~	~	0.15	~	~	120	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.015	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
spip - nickel (mg/l leachate)																												
Nickel	~	~	1.0	~	~	2900	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.03	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
spip - zinc (mg/l leachate)																												
Zinc	~	~	50	~	~	6.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.020	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:  
1. NT = Not Tested  
2. ~ = No Standard available  
3. A bold outlined cell indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.  
4. A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:  
1 Value exceeds Industrial/Commercial Direct Exposure Criteria  
+ Value exceeds Residential Direct Exposure Criteria  
\* Value exceeds Groundwater Class B Pollutant Mobility Criteria  
5. RSR criteria are in same units as analyte.  
6. Results are only compared to existing CT RSRs. No exceedences to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only.  
A summary of exceedance changes due to the revised RSRs is provided in Table 7.  
7. j=concentration is an estimate  
8. uj=reporting limit is an estimate  
9. eb= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

Table 4  
Summary of Soil Sample Analytical Results  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSRs			Revised CT RSRs			SAMPLING LOCATION																						EB	
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-26	SB-27	SB-28		SB-29		SB-29 DUP	SB-30		SB-30 DUP	SB-31	SB-32		SB-32 DUP	SB-33	SB-34 0-2FT	SB-34 2-4	SB-35 0-2	SB-35 4-5	SB-36 0-2	SB-36 2-4			
							12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/23/08 0-2FT	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08 NA LIMIT-22297		
Sampling Date							LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22477	LIMIT-22296	LIMIT-22477	LIMIT-22297	LIMIT-22296	LIMIT-22477	LIMIT-22297	LIMIT-22296	LIMIT-22296	LIMIT-22477	LIMIT-22297	LIMIT-22297	LIMIT-22296	LIMIT-22296	LIMIT-22297	LIMIT-22297	LIMIT-22297	LIMIT-22297	LIMIT-22297		
Sample Depth																														
Laboratory Report Number																														
8082 drywt (mg/kg dry wt)																													8082 water (ug/l)	
PCB 1016	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB 1016	<0.20
PCB-1221	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB-1221	<0.20
PCB-1232	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB-1232	<0.20
PCB-1242	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB-1242	<0.20
PCB-1248	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB-1248	<0.20
PCB-1254	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB-1254	<0.20
PCB-1260	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB-1260	<0.20
PCB 1262	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB 1262	<0.20
PCB 1268	10.0	1.00	~	10.0	1.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	PCB 1268	<0.20
8260 solid (mg/kg)																													8260 water (ug/l)	
Acetone	1,000	500	140	1,000	500	1,000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.097uj	NT	NT	NT	NT	NT	NT	NT	Acetone	<5.0
Acrylonitrile	11	1.1	0.1	10.6	0.12	0.048	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.006uj	NT	NT	NT	NT	NT	NT	NT	Acrylonitrile	<2.0
tert-Amyl methyl Ether	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.001uj	NT	NT	NT	NT	NT	NT	NT	tert-Amyl methyl Ether	<0.5
Benzene	200	21	0.2	57.2	0.7	2.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Benzene	<0.5
Bromobenzene	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Bromobenzene	<0.5
Bromochloromethane	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Bromochloromethane	<0.5
Bromodichloromethane	92	9.9	0.11	92.0	1.1	0.04	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Bromodichloromethane	<0.5
Bromoform	720	78	0.8	715.4	8.3	248	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Bromoform	<5.0
Bromomethane	1,000	95	2	1,000.0	33.9	0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	NT	Bromomethane	<0.5uj
2-Butanone (MEK)	1,000	500	80	1,000	500	1,000.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.039uj	NT	NT	NT	NT	NT	NT	NT	2-Butanone (MEK)	4.0
tert-Butyl Alcohol	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.039uj	NT	NT	NT	NT	NT	NT	NT	tert-Butyl Alcohol	<5.0uj
n-Butylbenzene	1,000	500	14	1,000	500	2.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	n-Butylbenzene	<0.5
sec-Butylbenzene	1,000	500	14	1,000	500	2.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	sec-Butylbenzene	<0.5
tert-Butylbenzene	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	tert-Butylbenzene	<0.5
tert-Butylethyl Ether	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.001uj	NT	NT	NT	NT	NT	NT	NT	tert-Butylethyl Ether	<0.5
Carbon Disulfide	1,000	500	140	1,000	500	30.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.006uj	NT	NT	NT	NT	NT	NT	NT	Carbon Disulfide	<0.5
Carbon Tetrachloride	44	4.7	1	44	3.2	0.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Carbon Tetrachloride	<0.5
Chlorobenzene	1,000	500	20	1,000	500	43.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Chlorobenzene	<0.5
Chlorodibromomethane	68	7.3	0.1	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.001uj	NT	NT	NT	NT	NT	NT	NT	Chlorodibromomethane	<0.5
Chloroethane	~	~	~	1,000	500	237.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.020uj	NT	NT	NT	NT	NT	NT	NT	Chloroethane	<1.0
Chloroform	940	100	1.2	1,000	67.7	2.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.004uj	NT	NT	NT	NT	NT	NT	NT	Chloroform	<0.5
Chloromethane	440	47	0.54	1,000	176.1	3.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	NT	Chloromethane	<0.5
2-Chlorotoluene	~	~	2	1,000	135.5	4.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	2-Chlorotoluene	<0.5
4-Chlorotoluene	~	~	2	1,000	135.5	3.6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	4-Chlorotoluene	<0.5
1,2-Dibromo-3-Chloropropane	4.1	0.44	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,2-Dibromo-3-Chloropropane	<5.0uj
1,2-Dibromomethane	0.067	0.007	0.1	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.001uj	NT	NT	NT	NT	NT	NT	NT	1,2-Dibromomethane	<0.50
Dibromomethane	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Dibromomethane	<0.5
1,2-Dichlorobenzene	1,000	500	3.1	1,000	500	46.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,2-Dichlorobenzene	<0.5
1,3-Dichlorobenzene	1,000	500	120	1,000	67.7	2.4	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,3-Dichlorobenzene	<0.5
1,4-Dichlorobenzene	240	26	15	143.1	10.5	18.8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,4-Dichlorobenzene	<0.5
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.004uj	NT	NT	NT	NT	NT	NT	NT	trans-1,4-Dichloro-2-Butene	<0.5
Dichlorodifluoromethane	~	~	~	~	~	2.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.020uj	NT	NT	NT	NT	NT	NT	NT	Dichlorodifluoromethane	<0.5
1,1-Dichloroethane	1,000	500	14	1,000	500	15.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,1-Dichloroethane	<0.5
1,2-Dichloroethane	63	6.7	0.2	63	0.7	0.12	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,2-Dichloroethane	<0.5
1,1-Dichloroethylene	9.5	1.0	1.4	1,000	500	2.3	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.004uj	NT	NT	NT	NT	NT	NT	NT	1,1-Dichloroethylene	<0.5
cis-1,2-Dichloroethylene	1,000	500	14	1,000	500	18.6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	cis-1,2-Dichloroethylene	<0.5
trans-1,2-Dichloroethylene	1,000	500	20	1,000	500	10.7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	trans-1,2-Dichloroethylene	<0.5
1,2-Dichloropropane	84	9.0	1	159	11.6	0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,2-Dichloropropane	<0.5
1,3-Dichloropropane	~	~	~	~	~	~	NT	NT	NT																					

Table 4  
Summary of Soil Sample Analytical Results  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSRs			Revised CT RSRs			SAMPLING LOCATION																EB								
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-26	SB-27	SB-28		SB-29		SB-29 DUP	SB-30		SB-30 DUP	SB-31	SB-32		SB-32 DUP	SB-33	SB-34 0-2FT	SB-34 2-4	SB-35 0-2	SB-35 4-5	SB-36 0-2	SB-36 2-4	12/23/08 NA LIMIT-22297			
Sampling Date							12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/22/08	12/23/08 0-2FT	12/23/08 0-2FT	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08	12/23/08
Sample Depth							LIMIT-22296	LIMIT-22296	LIMIT-22296	LIMIT-22477	LIMIT-22296	LIMIT-22477	LIMIT-22297	LIMIT-22296	LIMIT-22477	LIMIT-22297	LIMIT-22296	LIMIT-22296	LIMIT-22477	LIMIT-22297	LIMIT-22296	LIMIT-22296	LIMIT-22297	LIMIT-22297	LIMIT-22297	LIMIT-22297	LIMIT-22297	LIMIT-22297	LIMIT-22297	LIMIT-22297	
Laboratory Report Number							NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
1,1,1,2-Tetrachloroethane	220	24	0.2	220	2.5	0.08	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,1,1,2-Tetrachloroethane	<0.5	
1,1,2,2-Tetrachloroethane	29	3.1	0.1	29.0	2.3	0.028	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.001uj	NT	NT	NT	NT	NT	NT	NT	1,1,2,2-Tetrachloroethane	<0.5	
Tetrachloroethylene	110	12	1	10.6	0.8	1.6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Tetrachloroethylene	<0.5	
Tetrahydrofuran	~	~	~	753.1	55.0	9.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	NT	Tetrahydrofuran	<5.0	
Toluene	1,000	500	67	1,000.0	453.9	117.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Toluene	<0.5	
1,2,3-Trichlorobenzene	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,2,3-Trichlorobenzene	<0.5	
1,2,4-Trichlorobenzene	2,500	680	14	1,000.0	500	2.4	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,2,4-Trichlorobenzene	<0.5	
1,1,1-Trichloroethane	1,000	500	40	1,000	500	51.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,1,1-Trichloroethane	<0.5	
1,1,2-Trichloroethane	100	11	1	100.0	7.3	0.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,1,2-Trichloroethane	<0.5	
Trichloroethylene	520	56	1	64.3	0.7	0.52	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	Trichloroethylene	<0.5	
Trichlorofluoromethane	1,000	500	260	1,000	500.0	35.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	NT	Trichlorofluoromethane	<0.5	
1,2,3-Trichloropropane	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,2,3-Trichloropropane	<0.5	
1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	NT	1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	
1,2,4-Trimethylbenzene	1,000	500	70	1,000	500	2.4	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,2,4-Trimethylbenzene	<0.5	
1,3,5-Trimethylbenzene	1,000	500	70	1,000	500	1.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	1,3,5-Trimethylbenzene	<0.5	
Vinyl Chloride	3.0	0.32	0.4	8.0	0.1	38.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.010uj	NT	NT	NT	NT	NT	NT	NT	Vinyl Chloride	<0.5	
m + p Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.004uj	NT	NT	NT	NT	NT	NT	NT	m + p Xylene	<1.0	
o-Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	<0.002uj	NT	NT	NT	NT	NT	NT	NT	o-Xylene	<0.5	
etph dry weight (mg/kg dry weight)																													etph water (mg/l)		
Extractable TPH (ETPH)	2,500	500	2,500	~	~	2,500	NT	NT	NT	NT	NT	NT	NT	230	NT	NT	NT	850*	NT	740*	NT	NT	NT	NT	NT	NT	NT	NT	Extractable TPH (ETPH)	0.108	
metals(13pp)icp (mg/kg dry wt)																													6020 pp 12 water (ug/L)		
Antimony	8,200	27.0	~	8,176.0	271.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Antimony	<5.00	
Arsenic	10.0	10.0	~	10.0	10.0	~	7.95	7.32	16.8**	NT	8.57	NT	7.24	6.21	NT	NT	6.22	6.50	NT	NT	NT	7.01	6.26	8.02	7.42	5.45	5.57	Arsenic	<2.00		
Beryllium	2.00	2.00	~	408.8	13.6	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Beryllium	<2.00		
Cadmium	1,000	34.0	~	40.9	1.4	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Cadmium	<2.50		
Chromium	~	~	~	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Chromium	<50.0		
Chromium, hexavalent	100	100	~	613.2	20.3	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Chromium, hexavalent	NT		
Chromium, trivalent	51,000	3,900	~	50,000.0	50,000.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Chromium, trivalent	NT		
Copper	76,000	2,500	~	20,440.0	677.4	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Copper	<25.0		
Lead	1,000	400	~	1,000	400	~	NT	NT	NT	NT	NT	NT	NT	71.1	NT	46.2	NT	887.0*	NT	NT	NT	NT	NT	NT	NT	NT	NT	Lead	<5.00		
Mercury	610	20.0	~	613.2	20.3	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Mercury	<0.00010		
Nickel	7,500	1,400	~	1,363.0	45.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Nickel	<25.0		
Selenium	10,000	340	~	10,220.0	340.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Selenium	<25.0		
Silver	10,000	340	~	10,220.0	340.0	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Silver	<2.50		
Thallium	160	5.40	~	163.5	5.4	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Thallium	<1.00		
Zinc	610,000	20,000	~	50,000	20,322.6	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Zinc	<100		
solids (percent) (%)																													solids (percent) (%)		
Solids, total	~	~	~	~	~	~	85.4	86.8	92.2	NT	93.1	NT	89.3	90.9	NT	86.4	88.9	83.7	NT	85.1	NT	88.9	87.1	91.3	80.3	93.9	86.7	Solids, total	NT		
sp1p - arsenic (mg/l leachate)																													sp1p - arsenic (mg/l leachate)		
Arsenic	~	~	0.1	~	~	0.05	NT	NT	NT	<0.010	NT	<0.010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Arsenic	NT		
sp1p - cd low (mg/l leachate)																													sp1p - cd low (mg/l leachate)		
Cadmium	~	~	0.05	~	~	0.015	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Cadmium	NT		
sp1p - chromium (mg/l leachate)																													sp1p - chromium (mg/l leachate)		
Chromium	~	~	0.5	~	~	~	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Chromium	NT		
sp1p - copper (mg/l leachate)																													sp1p - copper (mg/l leachate)		
Copper	~	~	13	~	~	0.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Copper	NT		
sp1p - lead icp (mg/l leachate)																													sp1p - lead icp (mg/l leachate)		
Lead	~	~	0.15	~	~	120	NT	NT	NT	NT	NT	NT	NT	0.059	NT	NT	NT	0.16*	NT	NT	NT	NT	NT	NT	NT	NT	NT	Lead	NT		
sp1p - nickel (mg/l leachate)																													sp1p - nickel (mg/l leachate)		
Nickel	~	~	1.0	~	~	2900	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Nickel	NT		
sp1p - zinc (mg/l leachate)																													sp1p - zinc (mg/l leachate)		
Zinc	~	~	50	~	~	6.5	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	Zinc	NT		

Notes:  
1. NT = Not Tested  
2. ~ = No Standard available  
3. A bold outlined cell indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.  
4. A shaded cell indicates value is in excess of a CT Remediation Standard Regulation. Specific exceedances are indicated as follows:  
† Value exceeds Industrial/Commercial Direct Exposure Criteria  
+ Value exceeds Residential Direct Exposure Criteria  
\* Value exceeds Groundwater Class B Pollutant Mobility Criteria  
5. RSR criteria are in same units as analyte.  
6. Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational p  
A summary of exceedance changes due to the revised RSRs is provided in Table 7.  
7. j=concentration is an estimate  
8. uj=report

Table 5  
Summary of Groundwater Sample Analytical Results  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSRs			Revised CT RSRs			SAMPLING LOCATION			
	I/C VC	RES VC	SWPC	I/C VC	RES VC	SWPC	EB	MW-1	MW-1 DUP	TRIP BLANK
Sampling Date							1/6/09	1/6/09	1/6/09	1/6/09
Sample Depth							NA	NA	NA	NA
Laboratory Report Number							LIMIT-22446	LIMIT-22446	LIMIT-22446	LIMIT-22446
<b>6020 pp 12 water (ug/L)</b>										
Antimony	~	~	86,000	~	~	1,900.0	<5.00	10.1	9.44	NT
Arsenic	~	~	4.00	~	~	5.0	<2.00	2.65	2.40	NT
Beryllium	~	~	4.00	~	~	36.0	<2.00	<2.00	<2.00	NT
Cadmium	~	~	6.00	~	~	1.5	<2.50	836*	831*	NT
Chromium	~	~	~	~	~	~	<50.0	860	821	NT
Chromium, hexavalent	~	~	110.0	~	~	110.0	<0.004	1.02	1.00	NT
Chromium, trivalent	~	~	1200	~	~	420.0	NT	NT	NT	NT
Copper	~	~	48.0	~	~	50.0	<25.0	404*	430*	NT
Lead	~	~	13.0	~	~	12.0	<5.00	65.9*	78.2*	NT
Mercury	~	~	0.4	~	~	7.7	<0.00010	0.00017	0.00017	NT
Nickel	~	~	880	~	~	290.0	<25.0	411	405	NT
Selenium	~	~	50.0	~	~	50.0	<25.0uj	<25.0uj	<25.0uj	NT
Silver	~	~	12.0	~	~	10.0	<2.50	<2.50	<2.50	NT
Thallium	~	~	63.0	~	~	148.0	<1.00	<1.00	<1.00	NT
Zinc	~	~	123	~	~	650.0	<100	1780*	1870*	NT
<b>8082 water (ug/l)</b>										
PCB 1016	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1221	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1232	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1242	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1248	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1254	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB-1260	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB 1262	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
PCB 1268	~	~	0.50	3.6	0.5	0.5	NT	NT	NT	NT
<b>8260 water (ug/l)</b>										
Acetone	50,000	50,000	~	50,000.0	50,000.0	10,000.0	<5.0uj	<5.0uj	<5.0uj	<5.0
Acrylonitrile	~	~	20.0	93.6	2.4	20	<2.0	<2.0	<2.0	<2.0
tert-Amylmethyl Ether	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Benzene	530	130	710	304.0	125.0	623.0	<0.5	<0.5	<0.5	<0.5
Bromobenzene	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Bromochloromethane	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	73.0	2.3	~	80.0	2.0	1,394.0	<0.5	<0.5	<0.5	<0.5
Bromoform	2,300	75.0	10,800	~	~	1,240.0	<3.0	<3.0	<3.0	<3.0
Bromomethane	~	~	~	389.0	32.0	0.5	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	50,000	50,000	~	50,000.0	50,000.0	10,000.0	<2.0	<2.0	<2.0	<2.0
tert-Butyl Alcohol	~	~	~	~	~	~	<5.0uj	<5.0uj	<5.0uj	<5.0
n-Butylbenzene	21,000	1,500	~	17,780.0	1,295.0	10.0	<0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	20,000	1,500	~	16,143.0	1,175.0	10.0	<0.5	<0.5	<0.5	<0.5

Table 5  
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80 Hastings Street  
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Parameter	Existing CT RSRs			Revised CT RSRs			SAMPLING LOCATION			
	I/C VC	RES VC	SWPC	I/C VC	RES VC	SWPC	EB	MW-1	MW-1 DUP	TRIP BLANK
Sampling Date							1/6/09	1/6/09	1/6/09	1/6/09
Sample Depth							NA	NA	NA	NA
Laboratory Report Number							LIMIT-22446	LIMIT-22446	LIMIT-22446	LIMIT-22446
tert-Butylbenzene	~	~	~	~	~	10.0	<0.5	<0.5	<0.5	<0.5
tert-Butylethyl Ether	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Carbon Disulfide	~	~	~	~	~	150.0	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	14.0	5.3	132	13.7	5.6	133.0	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	23,000	1,800	420,000	26,684.0	2,166.0	470.0	<0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	~	~	1,020	~	~	~	<2.0	<2.0	<2.0	<2.0
Chloroethane	29,000	12,000	~	28,878.0	11,828.0	10,000.0	<0.5	<0.5	<0.5	<0.5
Chloroform	62.0	26.0	14,100	1,195.0	99.0	1,400.0	9.0	1.2u	1.2u	4.2u
Chloromethane	5,500	390	~	1,846.0	146.0	10,000.0	<4.0uj	<4.0uj	<4.0uj	<4.0
2-Chlorotoluene	~	~	~	2,426.0	200.0	10,000.0	<0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	~	~	~	2,158.0	178.0	70.0	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane	11.0	0.30	~	~	~	~	<0.50uj	<0.50uj	<0.50uj	<0.50
Dibromomethane	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	50,000	5,100	170,000	50,000.0	5,579.0	230.0	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	50,000	4,300	26,000	1,428.0	119.0	220.0	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	3,400	1,400	26,000	3,585.0	1,489.0	94.0	<0.5	<0.5	<0.5	<0.5
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	1,200	91.0	~	1,240.0	101.0	10,000.0	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	41,000	3,000	~	9,452.0	762.0	4,100.0	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	68.0	6.5	2,970	63.0	6.0	2,967.0	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	920	190	96.0	1,464.0	117.0	2,100.0	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene	11,000	830	~	11,472.0	928.0	6,200.0	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethylene	13,000	1,000	~	6,673.0	536.0	5,600.0	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	58.0	7.4	~	110.0	8.5	2,195.0	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	~	~	~	~	~	~	<0.5uj	<0.5uj	<0.5uj	<0.5
1,1-Dichloropropene	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	360	11.0	34,000	243.0	5.0	17.0	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	360	11.0	34,000	243.0	5.0	17.0	<0.50	<0.50	<0.50	<0.50
Diethyl Ether	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Diisopropyl Ether	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
1,4-Dioxane	~	~	~	~	~	~	<50.0uj	<50.0uj	<50.0uj	<50.0
Ethyl Benzene	36,000	2,700	580,000	21,915.0	1,763.0	610.0	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	~	~	~	~	~	~	<0.4uj	<0.4uj	<0.4uj	<0.4
2-Hexanone	~	~	~	~	~	~	<2.0	<2.0	<2.0	<2.0

Table 5  
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80 Hastings Street  
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Parameter	Existing CT RSRs			Revised CT RSRs			SAMPLING LOCATION			
	I/C VC	RES VC	SWPC	I/C VC	RES VC	SWPC	EB	MW-1	MW-1 DUP	TRIP BLANK
Sampling Date							1/6/09	1/6/09	1/6/09	1/6/09
Sample Depth							NA	NA	NA	NA
Laboratory Report Number							LIMIT-22446	LIMIT-22446	LIMIT-22446	LIMIT-22446
Isopropylbenzene	6,800	2,800	~	2,193.0	898.0	210.0	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	22,000	1,600	~	~	~	165.0	<0.5	<0.5	<0.5	<0.5
MTBE	50,000	21,000	~	50,000.0	22,013.0	10,000.0	<0.5	<0.5	<0.5	<0.5
Methylene Chloride	2,200	160	48,000	2,171.0	159.0	10,000.0	<1.0	<1.0	<1.0	<1.0
MIBK	50,000	13,000	~	50,000.0	50,000.0	10,000.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	~	~	~	~	~	~	<0.5uj	<0.5uj	<0.5uj	<0.5
n-Propylbenzene	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
Styrene	42,000	3,100	~	42,853.0	3,473.0	240.0	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	64.0	2.0	~	148.0	4.0	850.0	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	54.0	1.8	110	39.0	1.4	324.0	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	810	340	88.0	200.0	82.0	504.0	<0.5	<0.5	<0.5	<0.5
Tetrahydrofuran	~	~	~	5,722.0	493.0	10,000.0	<5.0	<5.0	<5.0	<5.0
Toluene	41,000	7,100	4,000,000	41,584.0	5,876.0	620.0	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	~	~	~	1,546.0	122.0	50.0	<0.5uj	<0.5uj	<0.5uj	<0.5
1,3,5-Trichlorobenzene	~	~	~	~	~	~	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	16,000	6,500	62,000	20,439.0	2,541.0	760.0	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	2,900	220	1,260	126.0	10.7	1,263.0	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	67.0	27.0	2,340	63.0	26.0	343.0	<0.5	1.3	1.1	<0.5
Trichlorofluoromethane	4,200	1,300	~	4,263.0	1,739.0	10,000.0	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	~	~	~	~	~	~	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	812.0	331.0	10,000.0	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	4,800	360	~	1,485.0	122.0	160.0	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	3,900	280	~	1,167.0	96.0	260.0	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	52.0	1.6	15,800	24.4	0.6	385.0	<0.5	<0.5	<0.5	<0.5
m + p Xylene	48,000	8,700	~	25,558.0	2,052.0	270.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	48,000	8,700	~	25,558.0	2,052.0	270.0	<0.5	<0.5	<0.5	<0.5
<b>etph water (mg/l)</b>										
Extractable TPH (ETPH)	~	~	~	~	~	~	<0.075	0.831	0.904	NT
<b>cyanide-total (mg/l)</b>										
Cyanide	~	~	0.052	~	~	0.052	0.013	0.197*	0.214*	NT

- Notes:**
1. NT = Not Tested
  2. ~ = No Standard available
  3. A bold outlined cell indicates that the mininum laboratory reporting limit exceeds one or more of the regulatory criteria.
  4. A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:  
+ Value exceeds Volatilization Criteria  
\* Value exceeds Surface Water Protection Criteria
  5. RSR criteria are in same units as analyte.
  6. Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only.  
A summary of exceedance changes due to the revised RSRs is provided in Table 7.
  7. j=concentration is an estimate
  8. uj=reporting limit is an estimate
  9. u= nondetected at the concentration reported



**TABLE 6. SUMMARY OF DATA VALIDATION QUALIFICATIONS**  
**Phase III ESA REPORT**  
**Former Progressive Plating Technologies**  
**80 Hastings Street, Bridgeport, CT**  
**AECOM Environment**

<b>Report #</b>	<b>Qualified Sample(s)</b>	<b>Matrix</b>	<b>Description</b>	<b>Qualification</b>
22296	SB-15	Soil	RPD >40% between two columns for Aroclor-1254. Precision is not acceptable.	Qualify as estimated detected result (J).
22296	SB-13, SB-13DUP SB-33	Soil	All VOC results are presented on a wet weight basis because no sample was provided for percent solids analysis. Results presented are biased low.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for all compounds.
22296	SB-13, SB-13DUP SB-33	Soil	ICV and/or CCV did not meet method specifications. Acetone, tert-butyl alcohol, 2-butanone, tetrahydrofuran, and 1,4-dioxane were calibrated with a relative response factor <0.05. Results may be biased low and there is possibility of false negatives.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for these compounds.
22296	SB-13, SB-13DUP SB-33	Soil	CCV did not meet % D criteria for acetone, dichlorodifluoromethane, and tert-butyl alcohol. The bias is indeterminate.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for these compounds.
22296	SB-13, SB-13DUP SB-33	Soil	The LCS and/or LCSD recoveries for 2,2-dichloropropane and trans-1,4-dichloro-2-butene were below criteria. Results may be biased low.	Qualify as estimated positive and nondetected results (J and UJ,

Table lists all samples and their respective reports that required qualification. Abbreviated terms are defined below:

CCV = continuing calibration verification;

EB= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

ICS= Interference Check Standard

ICV = initial calibration verification

J = concentration is an estimate

UJ =reporting limit is an estimate

LCS = Laboratory Control Spike

MS/MSD = Matrix Spike, Matrix Spike Duplicate

RPD = Relative Percent Difference

X:\60045450 (80 Hastings, Bridgeport)\500 Submittals\503 Phase III ESA\Table 6 Data Qualifications.doc

**TABLE 6. SUMMARY OF DATA VALIDATION QUALIFICATIONS**  
**Phase III ESA REPORT**  
**Former Progressive Plating Technologies**  
**80 Hastings Street, Bridgeport, CT**  
**AECOM Environment**

Report #	Qualified Sample(s)	Matrix	Description	Qualification
				respectively) for these compounds.
22296	SB-13, SB-13DUP	Soil	The RPD for trichloroethene in the field duplicate pair was above criteria. Precision is below criteria. The direction of bias is indeterminate.	Qualify as estimated positive results (J and UJ, respectively) for this compound in both samples.
22296	SB-16 SB-30 SB-32	Soil	ETPH was detected in the associated equipment blank at a concentration of 0.108 mg/L. Results may be biased high.	Qualify the ETPH results in all samples "EB."
22296	SB-16	Soil	RPDs between field duplicates for chromium and lead were above the 50% criteria (94 and 57%, respectively). Precision is below criteria. The direction of bias is indeterminate.	Qualify positive and nondetected results for these elements as estimated (J and UJ, respectively)
22297	SB-16DUP	Soil	RPDs between field duplicates for chromium and lead were above the 50% criteria (94 and 57%, respectively). Precision is below criteria. The direction of bias is	Qualify positive and nondetected results for these elements as

Table lists all samples and their respective reports that required qualification. Abbreviated terms are defined below:

CCV = continuing calibration verification;

EB= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

ICS= Interference Check Standard

ICV = initial calibration verification

J = concentration is an estimate

UJ =reporting limit is an estimate

LCS = Laboratory Control Spike

MS/MSD = Matrix Spike, Matrix Spike Duplicate

RPD = Relative Percent Difference

**TABLE 6. SUMMARY OF DATA VALIDATION QUALIFICATIONS**  
**Phase III ESA REPORT**  
**Former Progressive Plating Technologies**  
**80 Hastings Street, Bridgeport, CT**  
**AECOM Environment**

<b>Report #</b>	<b>Qualified Sample(s)</b>	<b>Matrix</b>	<b>Description</b>	<b>Qualification</b>
			indeterminate.	estimated (J and UJ, respectively)
22297	EB	Aqueous	ICV and/or CCV did not meet method specifications. Compounds tert-butyl alcohol, 1,4-dioxane, and 1,2-dibromo-3-chloropropane were calibrated with a relative response factor <0.05. Results may be biased low and there is possibility of false negatives.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for these compounds.
22297	EB	Aqueous	The LCS recovery for bromomethane is below criteria. Result may be biased low.	Qualify as estimated the nondetected result (UJ) for this compound.
22297	SB-32DUP	Soil	ETPH was detected in the associated equipment blank at a concentration of 0.108 mg/L. Results may be biased high.	Qualify the ETPH results in all samples "EB."
22477	SB-16 SB-16DUP	Soil	Although MSD recovery is below criteria, the concentration of the spike is not 4x the native concentration and the pH and ORP indicate reducing conditions in the soil matrix for both samples.	No action.

Table lists all samples and their respective reports that required qualification. Abbreviated terms are defined below:

CCV = continuing calibration verification;

EB= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

ICS= Interference Check Standard

ICV = initial calibration verification

J = concentration is an estimate

UJ =reporting limit is an estimate

LCS = Laboratory Control Spike

MS/MSD = Matrix Spike, Matrix Spike Duplicate

RPD = Relative Percent Difference

**TABLE 6. SUMMARY OF DATA VALIDATION QUALIFICATIONS**  
**Phase III ESA REPORT**  
**Former Progressive Plating Technologies**  
**80 Hastings Street, Bridgeport, CT**  
**AECOM Environment**

<b>Report #</b>	<b>Qualified Sample(s)</b>	<b>Matrix</b>	<b>Description</b>	<b>Qualification</b>
22477	SB-12	Soil	ETPH was detected in the associated equipment blank at a concentration of 0.108 mg/L. Results may be biased high.	Qualify the ETPH results in all samples "EB."
22446	EB MW-1 MW-1DUP	Aqueous	ICS below criteria for selenium. Results may be biased low.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for this element.
22446	EB MW-1 MW-1DUP	Aqueous	ICV and/or CCV did not meet method specifications. Compounds 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene, and 1,4-dioxane were calibrated with a relative response factor <0.05. Results may be biased low and there is possibility of false negatives.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for these compounds.
22446	EB MW-1 MW-1DUP	Aqueous	CCV did not meet % D criteria for bromomethane, acetone, tert-butyl alcohol, and 2,2-dichloropropane. The bias is indeterminate.	Qualify as estimated positive and nondetected results (J and UJ,

Table lists all samples and their respective reports that required qualification. Abbreviated terms are defined below:

CCV = continuing calibration verification;

EB= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

ICS= Interference Check Standard

ICV = initial calibration verification

J = concentration is an estimate

UJ =reporting limit is an estimate

LCS = Laboratory Control Spike

MS/MSD = Matrix Spike, Matrix Spike Duplicate

RPD = Relative Percent Difference

**TABLE 6. SUMMARY OF DATA VALIDATION QUALIFICATIONS**  
**Phase III ESA REPORT**  
**Former Progressive Plating Technologies**  
**80 Hastings Street, Bridgeport, CT**  
**AECOM Environment**

Report #	Qualified Sample(s)	Matrix	Description	Qualification
				respectively) for these compounds.
22446	MW-1DUP	Aqueous	CCV did not meet % D criteria for chloromethane. The bias is indeterminate.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for this compound.
22446	EB MW-1 MW-1DUP	Aqueous	LCS recovery was below criteria for chloromethane and 1,2,4-trichlorobenzene. Results may be biased low.	Qualify as estimated positive and nondetected results (J and UJ, respectively) for these compounds.
22446	MW-1 MW-1DUP	Aqueous	Chloroform was detected in the method blanks, equipment blank, and trip blank at concentrations of 1.18, 9.0, and 4.2 ug/L. Results may be biased high and the potential for false positive exists.	Quality the positive results in these samples as nondetected (U) at the concentration reported.

Table lists all samples and their respective reports that required qualification. Abbreviated terms are defined below:

CCV = continuing calibration verification;

EB= analyte was detected in the associated equipment blank and there is an indeterminate amount of error in the result presented

ICS= Interference Check Standard

ICV = initial calibration verification

J = concentration is an estimate

UJ =reporting limit is an estimate

LCS = Laboratory Control Spike

MS/MSD = Matrix Spike, Matrix Spike Duplicate

RPD = Relative Percent Difference

**Table 7**  
**Sample Exceedance Changes Due to Revised RSRs**  
**80 Hastings Street**  
**Bridgeport, CT**  
**AECOM Environment**

Phase II Concrete Chip Exceedances			
CC-1 (Concrete) (Floor Slab)			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
0 - 0.5	RES DEC	RES DEC	arsenic cadmium nickel
	I/C DEC	I/C DEC	arsenic
	NE	I/C DEC	nickel
	NE	GB PMC	arsenic
	See Note 2		Arsenic exceeded revised RCRA 8 TCLP disposal criteria.
Note: 1. GB classified groundwater. 2. Samples tested using TCLP to evaluate disposal issues. Results not compared to GB PMC for this media.			
CC-2 (Concrete) (Concrete Platform)			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
0 - 0.5	RES DEC	RES DEC	arsenic cadmium copper nickel
	I/C DEC	I/C DEC	arsenic nickel
	NE	I/C DEC	cadmium
	See Note 2		Arsenic exceeded revised RCRA 8 TCLP disposal criteria.
Note: 1. GB classified groundwater. 2. Samples tested using TCLP to evaluate disposal issues. Results not compared to GB PMC for this media.			
CC-3 (Concrete) (Floor Slab)			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
0 - 0.5	RES DEC	RES DEC	arsenic cadmium lead hexavalent chromium nickel
	I/C DEC	I/C DEC	arsenic hexavalent chromium nickel
	RES DEC	NE	trivalent chromium
	NE	RES DEC	copper
	NE	I/C DEC	cadmium
	See Note 2		Cadmium and chromium exceeded existing and revised RCRA 8 TCLP disposal criteria. Arsenic exceeded revised RCRA 8 TCLP disposal criteria.
	Note: 1. GB classified groundwater. 2. Samples tested using TCLP to evaluate disposal issues. Results not compared to GB PMC for this media.		

**Notes:**

1. NE = No Exceedance Under RSR Regime
2. ~ = No Standard Available Under RSR Regime

**Table 7**  
**Sample Exceedance Changes Due to Revised RSRs**  
**80 Hastings Street**  
**Bridgeport, CT**  
**AECOM Environment**

Phase II Soil Boring Exceedances			
COMP-1 (Soil) (Composite Sample from SB-4, SB-5, and SB-9)			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
0 - 2	RES DEC	RES DEC	arsenic * cadmium * chromium * lead * thallium *
	I/C DEC	I/C DEC	arsenic * chromium *
	NE	RES DEC	cadmium nickel
Note: * No analytes exceeded the existing DEC. However, other analytes are listed since an individual soil comprising a part of the composite may have an exceedance which may have been diluted in the composite.			
COMP-2 (Soil) (Composite Sample from SB-6, SB-7, and SB-8)			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
0 - 2	RES DEC	RES DEC	cadmium * chromium * thallium *
	RES DEC	RES DEC	arsenic
	I/C DEC	I/C DEC	chromium *
	I/C DEC	I/C DEC	arsenic
	NE	RES DEC	cadmium nickel
Note: * No analytes exceeded the existing DEC. However, other analytes are listed since an individual soil comprising a part of the composite may have an exceedance which may have been diluted in the composite.			
SB-01 (Soil)			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
1 - 3	RES DEC	RES DEC	lead
	I/C DEC	I/C DEC	lead
	RES DEC	~	ETPH
	NE	RES DEC	cadmium nickel
	NE	GM PMC	copper
SB-02 (Soil)			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
1 - 2	RES DEC	RES DEC	arsenic
	I/C DEC	I/C DEC	arsenic

**Notes:**

1. NE = No Exceedance Under RSR Regime
2. ~ = No Standard Available Under RSR Regime

**Table 7**  
**Sample Exceedance Changes Due to Revised RSRs**  
**80 Hastings Street**  
**Bridgeport, CT**  
**AECOM Environment**

<b>SB-05B (Soil)</b>			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
2 - 4	RES DEC	RES DEC	arsenic cadmium
	I/C DEC	I/C DEC	arsenic
	GB PMC	GB PMC	SPLP cadmium
	NE	RES DEC	nickel
	RES DEC	~	chromium
	NE	I/C DEC	cadmium
	I/C DEC	~	chromium

<b>SB-06B (Soil)</b>			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
6 - 8	RES DEC	RES DEC	arsenic cadmium
	I/C DEC	I/C DEC	arsenic
	NE	RES DEC	nickel
	RES DEC	~	chromium
	NE	I/C DEC	cadmium
	I/C DEC	~	chromium

<b>SB-09B (Soil)</b>			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
2 - 4	NE	RES DEC	cadmium nickel

**Phase III Soil Boring Exceedances**

<b>SB-16 (Soil)</b>			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
0.5-1.7	RES DEC	RES DEC	Arsenic
	I/C DEC	I/C DEC	Arsenic
	NE	RES DEC	Cadmium Nickel

<b>SB-28 (Soil)</b>			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
0.5-1.25	RES DEC	RES DEC	Arsenic
	I/C DEC	I/C DEC	Arsenic

<b>SB-32 (Soil)</b>			
Depth Interval (ft bgs)	Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
1-2.7	RES DEC	RES DEC	Lead
	RES DEC	~	ETPH
	GB PMC	NE	SPLP Lead

- Notes:**
1. NE = No Exceedance Under RSR Regime
  2. ~ = No Standard Available Under RSR Regime



Table 7  
Sample Exceedance Changes Due to Revised RSRs  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

<b>Phase III Groundwater Exceedances</b>
--

MW-1		
Existing CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
SWPC	SWPC	Cadmium Copper Lead Zinc SPLP Total Cyanide
NE	SWPC	Nickel
Note: 1. GB classified groundwater.		

MW-1 DUP		
Original CT RSR Exceedance	Revised CT RSR Exceedance	Parameter
SWPC	SWPC	Cadmium Copper Lead Zinc
NE	SWPC	Nickel
Note: 1. GB classified groundwater.		

**Notes:**

1. NE = No Exceedance Under RSR Regime
2. ~ = No Standard Available Under RSR Regime

Table 8  
Status of Recognized Environmental Conditions  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

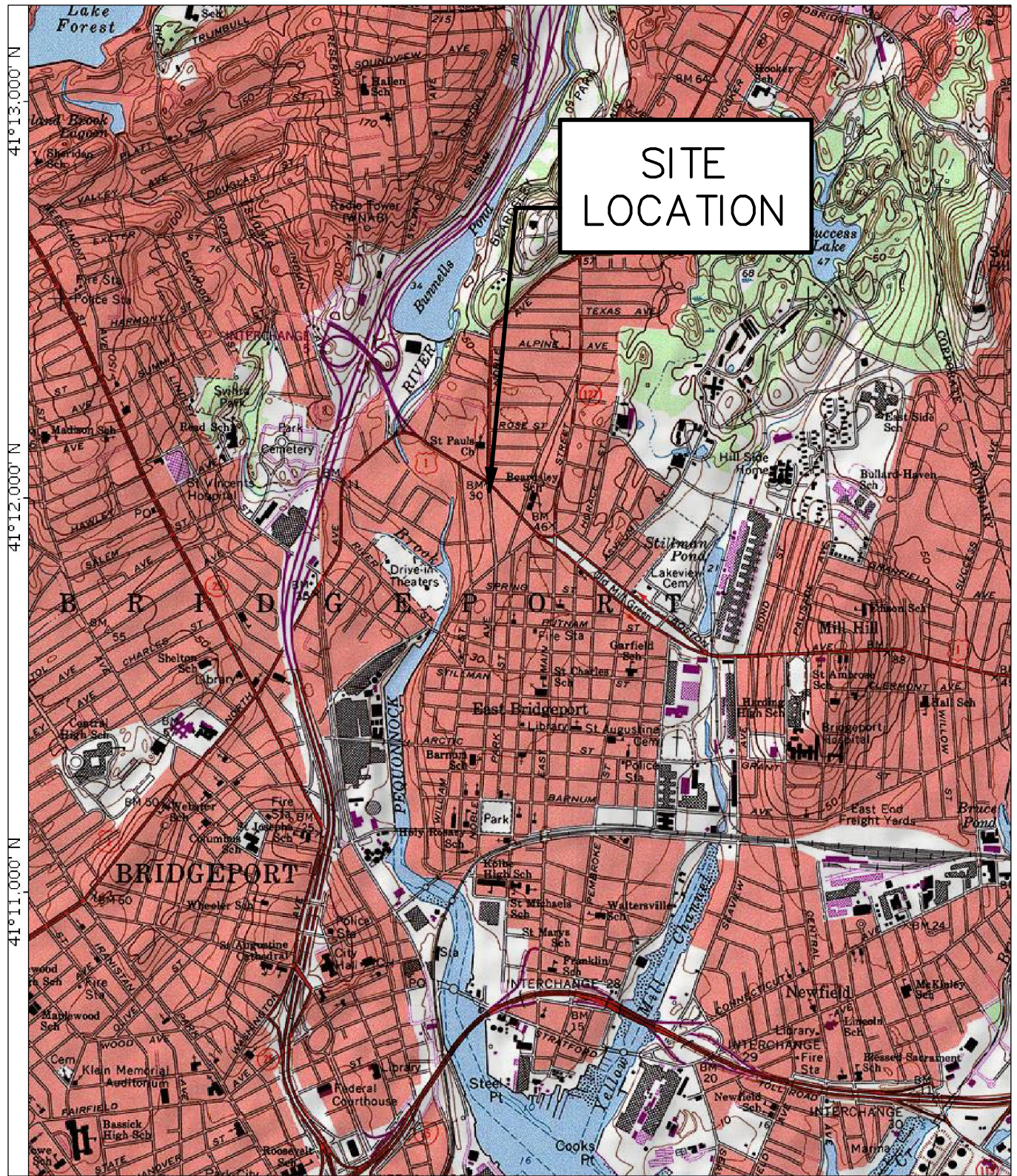
REC #	Description- Potential Source and Contaminants of Concern	Has this REC been investigated?	Phase II Findings	Phase III Findings	Confirmed Contaminants of Concern	Conclusions- General Recommendations
1	Soil – Subsurface soils due to cyanide and/or other metals and petroleum contamination from historic metal plating operations, spills, and/or seepage from floor drains or compromised sub-grade structures.	Yes	Cd exceeds GB PMC and RES DEC, As exceeds I/C DEC in at least one soil sample. Cr,Pb, and TI may exceed DEC in composited samples.	Several additional individual RES DEC and I/C DEC As exceedances were discovered inside and outside the building. 95% UCL calculations for As were conducted on samples from the paved parking area.	Arsenic Cadmium Chromium Thallium Lead	Soil with metal exceedances under the building floor is isolated from direct contact and from water infiltration by the building slab foundation. Based on the 95% UCL calculation for As, soil under the paved parking area does not exceed current CTRSRs for As.
2	Potential urban fill - Potential historic fill may be present.	Yes	Ash, cinders, and brick fragments were found in soil borings. As was detected in all soil samples analyzed for As and exceeded DEC in 4 samples. PAHs were detected in one composite soil sample but did not exceed DEC	Potential urban fill was again detected in soil borings. As was detected in most samples and exceeded the CTRSRs in several. 95% UCL calculations for As were conducted on samples from the paved parking area.	Arsenic	Soil with metal exceedances under the building floor is isolated from direct contact and from water infiltration by the building slab foundation. Based on the 95% UCL calculation for As, soil under the paved parking area does not exceed current CTRSRs for As.
3	Site-wide Groundwater – Cyanide and/or other metals and petroleum contamination from historic metal plating operations and/or seepage from floor drains or compromised sub-grade structures.	Yes	The groundwater sample collected from beneath the center of the building contained arsenic, cadmium, chromium (potentially if it is hexavalent chromium), copper, lead, zinc, and cyanide at concentrations in exceedance of the CTRSR SWPC. No VOCs were detected in the groundwater sample.	Although four more wells were installed at the site, it was not possible to collect any water from them during sampling activities. MW-1 was the only well sampled and again several metals were in exceedance of the SWPC. Groundwater does not appear to migrate off site.	Cadmium Copper Lead Zinc Cyanide	The only sampleable groundwater exists at MW-1 which may be located in a man-made bedrock depression. Dewatering and isolation of the area could be performed to remediate this groundwater. Post remediation monitoring should be performed to ensure no off-site migration is occurring.
4	Off-Site Groundwater – Potential contamination in off-site groundwater from neighboring industrial/commercial properties that flows onto this property.	No	Not applicable	Groundwater does not appear to flow onto the site from off-site AOCs, no further evaluation of this REC is required.		Off-site groundwater does not seem to be affecting the site.
5	Residual petroleum – Possible hydraulic oil in lifts in loading docks and observed oil spills in the building.	No	Staining was observed and it's location was identified.	Staining was observed and it's location was identified. This REC will be addressed during remediation and site redevelopment. Hydraulic oil in lifts will be addressed during site redevelopment.		Residual petroleum will require further characterization and appropriate disposal during site redevelopment.
6	Residual chemicals – Solids – cyanide and/or other metals, precipitates and filter cake on the main production floor. Liquids - acidic and/or basic solutions and metals solutions in the floor trenches. Desiccated sludge in the sludge holding tank. Additional residual chemicals may be present in equipment remaining on site, and in the laboratory.	Partially	Residual chemicals were observed and their location was identified.	Residual chemicals were observed and their location was identified.		Residual chemicals - solids - will require further characterization and appropriate disposal during site redevelopment.
7	PCBs – Possible PCBs related to hydraulic lifts, the former transformers, and light ballasts in the southern storage room and eastern office areas.	Partially	Not applicable	No PCBs were detected in soil samples collected near the former transformers and lifts.		Light ballasts in the southern storage room and eastern office areas require appropriate disposal during redevelopment.
8	Lead-Based Paint (LBP) – Potential LBP observed on steel beams and in boiler room, due to age of facility.	Yes	Several lead-based paint containing building materials were identified via XRF field screening.	Chip samples were collected and submitted for TCLP lead analysis. All results were below the EPA limit.	Lead	Appropriate LBP abatement and disposal will be required during redevelopment.
9	Asbestos Containing Materials (ACM) – Potential asbestos in the ovens on site, in the boiler room, and in floor and ceiling tiles in the laboratory and offices.	Yes	Several different types of asbestos-containing materials are present in the building at several locations.	Additional sampling and analysis of asbestos-containing materials was performed to refine the quantities of interior and exterior ACM.	Asbestos	ACM must be removed during demolition and redevelopment activities.
10	Freon – Potential freon remaining in window air conditioner units in the office areas.	No	Not applicable	Not applicable		This REC will be addressed during site redevelopment. Air conditioning units can be disposed of conventionally.

Table 8  
Status of Recognized Environmental Conditions  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

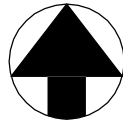
REC #	Description- Potential Source and Contaminants of Concern	Has this REC been investigated?	Phase II Findings	Phase III Findings	Confirmed Contaminants of Concern	Conclusions- General Recommendations
11	Mold – Mold may be present on the building interior since the interior of the building is exposed to the elements.	No	Not applicable	Not applicable		This REC will be addressed during site redevelopment. Mold can be addressed conventionally.
12	Vault Structure – Potential soil and/or groundwater contamination in the vicinity of the concrete vault structure of unknown use located in the southern portion of the parking lot.	Yes	ETPH was detected in exceedance of the RES DEC and lead was detected in exceedance of I/C DEC, various other metals were detected.	ETPH and lead were again detected in exceedance of the CTRSRs.	ETPH Lead	This area could be remediated by excavation and off-site disposal.
13	Fire Damage – Smoke staining, potentially containing PAHs, is present on the building interior from the January 2008 fire at the site.	No	Fire damage including smoke staining was documented.	Fire damage including smoke staining was documented.		This REC will be addressed during site redevelopment. A separate QAPP Addendum will be submitted to EPA prior to any additional sampling of this REC. Smoke damage can be addressed conventionally.
14	Impacted Concrete - Concrete floor slabs may be contaminated due to historic spills.	Yes	Analysis of concrete samples showed RES and/ or I/C DEC exceedances for As, Cd, Ni, Pb, and hexavalent chromium.	Not further evaluated.	Arsenic Cadmium Chromium Lead Copper Nickel	This REC will be addressed during site redevelopment. Concrete from the former plating section of the building could be remediated by pouring a new slab on top of the existing slab.
15	Loading Docks - Loading dock areas may represent potential sources of contamination due to historic spills.	Yes	A release of contaminants associated with site operations does not appear to have occurred. However, arsenic was detected above CTRSR RES and I/C DEC in one soil sample, potentially related to urban fill materials.	No additional soil exceedances were found in the loading dock area although there was visual evidence of potential petroleum staining on the southernmost lift.	Arsenic	The arsenic exceedance was included in the 95% UCL calculation and was less than 2x the DEC. Arsenic is therefore not considered to be in exceedance of the CTRSRs. Potential petroleum impacts due to the lifts will be further evaluated during site redevelopment activities.
16	Chemical Storage Areas - Chemical storage areas may represent potential sources of contamination due to historic spills or leakage. The 300 gallon cyanide spill is included in this REC.	Yes – Cyanide Storage Area and Chemical Storage Room	Cyanide concentration was found to exceed SWPC in groundwater sampled at MW-1 (approximately 40 feet from REC), but was not in exceedance of RES DEC in soil boring performed at this REC.	Four additional wells were installed around MW-1. Water was not present or water was not available in sufficient quantities to collect a sample for MW-2 through MW-5 during GW sampling activities. Several metals and cyanide were in exceedances of the SWPC in MW-1.	Cadmium Copper Lead Zinc Cyanide	Based on Phase II and III results, the cyanide storage area does not appear to be an on-going source of contamination. The cyanide and metals in groundwater around MW-1 are potentially due to a different release pathway (i.e. sump / floor crack). The area could be dewatered and isolated to prevent migration of any metals away from the MW-1 area.
17	Tool Room - Chemicals may have been stored or used in the tool room.	Yes	Not applicable	A soil boring was performed in this area (SB-33). No VOCs were detected.		The floor appears to be intact and a release has not been identified.
18	Subsurface Drainage Structures - Subsurface drainage structures, some potentially related to the municipal sanitary sewer system, may be present and contain residual chemicals.	No	Impacts to site wide ground water or soil are discussed elsewhere.	Impacts to site wide ground water or soil are discussed elsewhere.		Subsurface drainage structures will either be cleaned, assessed, and sealed or removed during site redevelopment.

GB PMC - Groundwater classification area B Pollutant Mobility Criteria  
RES DEC - Residential Direct Exposure Criteria  
I/C DEC - Industrial / Commercial Direct Exposure Criteria  
UCL - Upper Confidence Interval  
CTRSRs - Connecticut Remediation Standard Regulations  
PAHs - Polycyclic Aromatic Hydrocarbons  
SWPC - Surface Water Protection Criteria  
VOCs - Volatile Organic Compounds  
AOCs - Areas of Concern  
PCBs - Polychlorinated Biphenyls





SOURCE:  
U.S.G.S. TOPOGRAPHIC MAPS  
BRIDGEPORT, CT QUADRANGLE,  
MAP VERSION: 1984, CURRENT AS OF 1982



**METCALF & EDDY | AECOM**

**FIGURE 1**  
**SITE LOCATION MAP**  
80 HASTINGS STREET  
BRIDGEPORT, CONNECTICUT

DATE: JAN. 2009

















# GEOLOGIC LOG

## ENGINEERS

METCALF & EDDY | AECOM

[illegible]

METCALF & EDDY | AECOM

METCALF & EDDY | AECOM



Metcalf &amp; Eddy, Inc.

## GEOLOGIC LOG

ENGINEERS

METCALF &amp; EDDY | AECOM

PROJECT: 80 Hastings Street Bridgeport, CT Phase I/II/III Environmental Assessment

SITE LOCATION: 80 Hastings Street  
Bridgeport, CT

JOB NO.: # 60045450.04

LOCATION:

N:

E:

SHEET

1 of 1

BORING NO.

1112 M44

Elevation:

Total Depth:

4.5'

DRILL CONTRACTOR: Glacier Drilling

ENG/GEO: Seremet/Kantor

BEGUN:

DRILL RIG: Geoprobe 54LT

DRILLER: J. J. J.

FINISHED:

Hole Size: 2"

Weather:

20s sunny

Ground Water (Depth/Elev.):

5'

Drilling Method: Direct push

Drilling Fluid:

None

Top of Rock (Depth/Elev.):

4.5'

refers

Depth	Sample Type/No.	PID (ppm)	Blow Count (per 6 in.) or Drilling Rate (min/ft)	Sample Recovery or REC & RQD	SAMPLE DESCRIPTION	STRATIGRAPHIC DESCRIPTION
0-4'				33'	NOTE: Depths read from top of recovered sample	
0-8'					Asphalt	
8-16'					M. Brn sand, chunks concrete	
16-22'					M. Brn gray sand chunks concrete	
22-33'					Blk. sand silt	
33-40'						
40-48'				10' recover		
48-54'	slugs 4				slugs 4	
54-60'					F. Brown black sand silt	
60-66'					As sample 12-24"	
66-72'						
72-78'						
78-84'						
84-90'						
90-96'						
96-102'						
102-108'						
108-114'						
114-120'						

## SAMPLE TYPES:

SS=SPLIT SPOON

ST=SHELBY TUBE

R=ROCK CORE

Trace 0 to 5%

Few 5 to 10%

Little 15 to 25%

Some 30 to 45%

## SPT Resistance

Cohesionless Density: 0-4 V. Loose

5-9 Loose 10-29 Med. Dense

30-49 Dense 50+ V. Dense

Cohesive Consistency: 0-2 V. Soft

3-4 Soft, 5-8 M/Stiff, 9-15 Stiff

16-30 V. Stiff, 31+ Hard

Approved/Date

## GEOLOGIC LOG

## ENGINEERS

METCALF & EDDY | AECOM

[illegible]

X:\FORMS\Field Forms\[SBlogsDS.xls]Boring Log

## Metcalf &amp; Eddy, Inc.

## GEOLOGIC LOG

ENGINEERS

METCALF &amp; EDDY | AECOM

12/22

PROJECT: 80 Hastings Street Bridgeport, CT Phase I/II/III Environmental Assessment

SITE LOCATION: 80 Hastings Street  
Bridgeport, CT

JOB NO.: # 60045450.04

LOCATION:

N:

E:

SHEET

1 of 1

BORING NO.

517-14

Elevation:

Total Depth:

6

DRILL CONTRACTOR: Glacier Drilling

ENG/GEO: Seremet Kantor shires

BEGUN:

DRILL RIG: Geoprobe 54LT

DRILLER: 3450

FINISHED:

Hole Size: 2"

Weather:

20s Sunny

Ground Water (Depth/Elev.):

Drilling Method: Direct push

Drilling Fluid:

None

Top of Rock (Depth/Elev.):

6'

Depth	Sample Type/No.	PID (ppm)	Blow Count (per 6 in.) or Drilling Rate(min/ft)	Sample Recovery or REC & RQD	SAMPLE DESCRIPTION	STRATIGRAPHIC DESCRIPTION
				38"	NOTE: Depths read from top of recovered sample	
4'-29"		0			Asphalt	
24-30"					M-F Brown sand + some rocks	
4'					Fine sand silt wet	
				24"	Fine brown sand / silt	
0-12"						
12-24"					F Brown sand fine rocks	
6'					refused	
					PCB sample 0-8"	
					As sample 8-16"	

## SAMPLE TYPES:

SS=SPLIT SPOON

ST=SHELBY TUBE

R=ROCK CORE

Trace 0 to 5%

Few 5 to 10%

Little 15 to 25%

Some 30 to 45%

## SPT Resistance

Cohesionless Density: 0-4 V. Loose

5-9 Loose 10-29 Med. Dense

30-49 Dense 50+ V. Dense

Cohesive Consistency: 0-2 V. Soft

3-4 Soft, 5-8 M/Stiff, 9-15 Stiff

16-30 V. Stiff, 31+ Hard

Approved/Date







<b>Metcalf &amp; Eddy, Inc.</b>			<b>GEOLOGIC LOG</b>			<b>METCALF &amp; EDDY   AECOM</b>		
<b>ENGINEERS</b>								
PROJECT : 80 Hastings Street Bridgeport, CT Phase I/II/III Environmental Assessment						SHEET 1 of 1		BORING NO. 513-17
SITE LOCATION: 80 Hastings Street Bridgeport, CT				JOB NO.: # 60045450.04		Elevation:		Total Depth: 9'
				LOCATION: N: E:		BEGUN:		
DRILL CONTRACTOR: Glacier Drilling				ENG/GEO: Seremet/Kantor 2 hours		FINISHED:		
DRILL RIG: Geoprobe 54LT				DRILLER: JAV				
Hole Size: 2"		Weather: 20s Sunny				Ground Water (Depth/Elev.):		
Drilling Method: Direct push				Drilling Fluid: None		Top of Rock (Depth/Elev.): 9'		
Depth	Sample Type/No.	PID (ppm)	Blow Count (per 6 in.) or Drilling Rate(min/ft)	Sample Recovery or REC & RQD	SAMPLE DESCRIPTION		STRATIGRAPHIC DESCRIPTION	
					NOTE: Depths read from top of recovered sample			
0-4'		0			32" recovery			
0-6'		↓			asphalt, brick pgs fill			
	6-12"				F sand asphalt chunks F-L			
	12-18"				concrete			
	18-32				Fine brown sand			
					As sample @ 8"			
4-8'		0		34" recovery				
		0-10"			Brown fine sand			
		10-11"			chunk of concrete			
		11-24"			F brn sand, silt			
		24-34"			F-m Brn sand			
8-12'				24" recovery				
	0-24"				F Brn sand/silt			
SAMPLE TYPES:			Trace 0 to 5%		SPT Resistance		Approved/Date	
SS=SPLIT SPOON			Few 5 to 10%		Cohesionless Density: 0-4 V. Loose		Cohesive Consistency: 0-2 V. Soft	
ST=SHELBY TUBE			Little 15 to 25%		5-9 Loose 10-29 Med. Dense		3-4 Soft, 5-8 M/Stiff, 9-15 Stiff	
R=ROCK CORE			Some 30 to 45%		30-49 Dense 50+ V. Dense		16-30 V. Stiff, 31+ Hard	

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## GEOLOGIC LOG

## ENGINEERS

METCALF & EDDY | AECOM

PROJECT : 80 Hastings Street Bridgeport, CT Phase I/II/III Environmental Assessment		SHEET	BORING NO.
SITE LOCATION: 80 Hastings Street Bridgeport, CT		JOB NO.: # 60045450.04	1 of 1 513 23
LOCATION:		Elevation:	Total Depth:
N: E:			8
DRILL CONTRACTOR : Glacier Drilling	ENG/GEO : Seremet/Kantor	BEGUN :	
DRILL RIG: Geoprobe 54LT	DRILLER : 561 m	FINISHED :	
Hole Size : 2"	Weather : 20s sunny	Ground Water (Depth/Elev.) :	6'
Drilling Method : Direct push	Drilling fluid : None	Top of Rock (Depth/Elev.) :	8'

Depth	Sample Type/No.	PID (ppm)	Blow Count (per 6 in.) or Drilling Rate(min/ft)	Sample Recovery or REC & RQD	SAMPLE DESCRIPTION	STRATIGRAPHIC DESCRIPTION
					NOTE: Depths read from top of recovered sample	
				27'		
6"					Asphalt	
21"					F-M brown sand some rocks	
27"					Fine brown sand	
4'						
					1- 1" piece slag @ 6"	
				18" recovery		
0-6"					rocks wet F sand	
6-18"					F-M sand silt wet	
					As sample @ 6-20"	

**SAMPLE TYPES:**

SS=SPLIT SPOON  
ST=SHELBY TUBE  
R=ROCK CORE

Trace	0 to 5%
Few	5 to 10%
Little	15 to 25%
Some	30 to 45%

## SPT Resistance

<b>Cohesionless Density:</b>	
0-4 V. Loose	
5-9 Loose	10-29 Med. Dense
30-49 Dense	50+ V. Dense

### Cohesive Consistency:

3-4 Soft, 5-8 M/Stiff, 9-15 Stiff  
16-30 V. Stiff, 31+ Hard

Approved/Date
---------------

X:\FORMS\Field Forms\[SBlogsDS.xls]Boring Log



# GEOLOGIC LOG

## ENGINEERS

METCALF &amp; EDDY | AECOM

[illegible]



Metcalf & Eddy, Inc.			GEOLOGIC LOG			METCALF & EDDY   AECOM			
ENGINEERS									
PROJECT : 80 Hastings Street Bridgeport, CT Phase I/II/III Environmental Assessment						SHEET 1 of 1		BORING NO. 5A-27	
SITE LOCATION: 80 Hastings Street Bridgeport, CT				JOB NO.: # 60045450.04		Elevation:		Total Depth: 4'	
				LOCATION: N: E:		BEGUN :			
DRILL CONTRACTOR : Glacier Drilling				ENG/GEO : Seremet/Kumar <del>Shore</del>		FINISHED :			
DRILL RIG: Geoprobe 54LT				DRILLER : <del>Sajan</del>					
Hole Size : 2"		Weather : 20s sunny				Ground Water (Depth/Elev.):			
Drilling Method : Direct push				Drilling Fluid : None		Top of Rock (Depth/Elev.): 4' refusal			
Depth	Sample Type/No.	PID (ppm)	Blow Count (per 6 in.) or Drilling Rate(min/ft)	Sample Recovery or REC & RQD	SAMPLE DESCRIPTION			STRATIGRAPHIC DESCRIPTION	
					NOTE: Depths read from top of recovered sample				
5'				33" recover	recovered				
7'					split				
12'					concrete				
22'					in brown sand rocks				
4'					black m-f sand				
			22-37'		yellowish brown silty sand				
					As sample 5A-22"				
SAMPLE TYPES:			Trace 0 to 5%		SPT Resistance		Approved/Date		
SS=SPLIT SPOON			Few 5 to 10%		Cohesionless Density: 0-4 V. Loose		Cohesive Consistency: 0-2 V. Soft		
ST=SHELBY TUBE			Little 15 to 25%		5-9 Loose 10-29 Med. Dense		3-4 Soft, 5-8 M/Stiff, 9-15 Stiff		
R=ROCK CORE			Some 30 to 45%		30-49 Dense 50+ V. Dense		16-30 V. Stiff, 31+ Hard		

## GEOLOGIC LOG

## ENGINEERS

METCALF & EDDY | AECOM

[illegible]

X:\FORMS\Field Forms\[SBlogsDS.xls]Boring Log



# Metcalfe & Eddy, Inc.

## GEOLOGIC LOG

ENGINEERS

METCALFE & EDDY | AECOM

PROJECT: 80 Hastings Street Bridgeport, CT Phase I/II/III Environmental Assessment

SITE LOCATION: 80 Hastings Street  
Bridgeport, CT

JOB NO.: # 60045450.04

LOCATION:

N:

E:

SHEET

1 of 1

BORING NO.

SB-31

Elevation:

Total Depth:

6'

DRILL CONTRACTOR: Glacier Drilling

ENG/GEO: Seremet Kantor S40 RPS

BEGUN:

DRILL RIG: Geoprobe 54LT

DRILLER: J. Alon

FINISHED:

Hole Size: 2"

Weather: 20, Sunny

Ground Water (Depth/Elev.): 5'

Drilling Method: Direct push

Drilling Fluid:  
None

Top of Rock (Depth/Elev.): 6'

Depth	Sample Type/No.	PID (ppm)	Blow Count (per 6 in.) or Drilling Rate(min/ft)	Sample Recovery or REC & RQD	SAMPLE DESCRIPTION	STRATIGRAPHIC DESCRIPTION
					NOTE: Depths read from top of recovered sample	
				31"	recovery	
	1-5' 5-8'				Asphalt + m Brn sand/rocks	
	8-14'				Fill pieces of glass, plastic, blackish brown fine sand,	
	14-16'				Rock	
	16-20'				m Brn sand	
	20-27'				Blackish brown m-f sand	
	27-29'				lt brn m-c sand	
	29-31'				m-f brownish black sand w/ pebbles, organics	
				18"	recovery	
	0-6'				m Brn sand	
	6-12'				Blackish brown sand wet	
	12-18'				wet Brn m-sand	
					wet @ 10'	
					refusal @ 6'	
					As sample 8-18"	

### SAMPLE TYPES:

SS=SPLIT SPOON

ST=SHELBY TUBE

R=ROCK CORE

Trace 0 to 5%

Few 5 to 10%

Little 15 to 25%

Some 30 to 45%

SPT Resistance

Cohesionless Density: 0-4 V. Loose

5-9 Loose 10-29 Med. Dense

30-49 Dense 50+ V. Dense

Cohesive Consistency: 0-2 V. Soft

3-4 Soft, 5-8 M/Stiff, 9-15 Stiff

16-30 V. Stiff, 31+ Hard

Approved/Date









## GEOLOGIC LOG

## ENGINEERS

METCALF & EDDY | AECOM

[illegible]

## GEOLOGIC LOG

## ENGINEERS

METCALF & EDDY AECOM

PROJECT :	80 Hastings Street Bridgeport, CT Phase I/II/III Environmental Assessment
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**SITE LOCATION:** 80 Hastings Street  
Bridgeport, CT

JOB NO.: # 60045450.04

SHEET

BORING NO.

1 of 1

5/3 76

LOCATION:

Elevation:

Total Depth:

**N:**

F.

**DRILL CONTRACTOR:** Glacier Drilling

ENG/GEO : Seremet/Kantor *S/Her/RI*

**BEGUN :**

DRILL RIG: Geoprobe 54LT

DRILLER: *3/12/12*

FINISHED :

Hole Size :

Weather :

Ground Water (Depth/Elev.):

Drilling Method : Direct push

**Drilling Fluid :**

Top of Rock (Depth/Elev.):

None

41

[illegible]

**SAMPLE TYPES:**

SS=SPLIT SPOON

ST=SHELBY TUBE

R=ROCK CORE

Trace 0 to 5%

Few 5 to 10%

Little 15 to 25%

Some 30 to 45%

### SPT Resistance

Cohesionless Density:	0-4 V. Loose
-----------------------	--------------

5-9 Loose 10-29 Med. Dense

30-49 Dense	50+ V. Dense
-------------	--------------

Cohesive Consistency:	0-2 V. Soft
-----------------------	-------------

3-4 Soft, 5-8 M/Stiff, 9-15 Stiff

16-30 V. Stiff, 31+ Hard

Approved/Date

PROJECT: 0043450.04

SHEET

WELL NO.

1 of 1

ML-2

SITE LOCATION

80 HASTINGS  
DORCHESTER CT

JOB NO:

LOCATION:

N:

E:

Elevation:

Total Depth:

DRILL CONTRACTOR:

Chavez

ENG/GEO: Serrano / shores

DRILLER: JASON

DATE: 12/23/06

INSTALLATION METHOD:

direct push by Geoprobe

TIME:

TYPE OF MONITORING WELL:

1"

Ground Water (Depth/Elev.):

wet @ 16"

MATERIALS USED

Sched 40 PVC 1"  
0.01 screen 2'

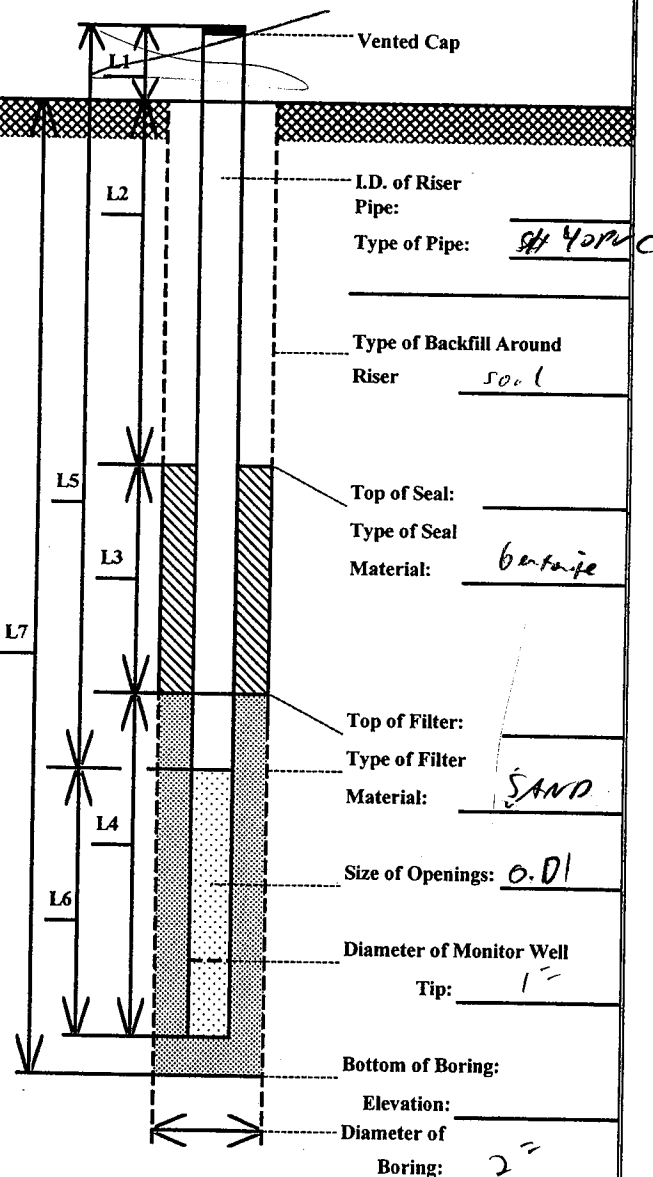
SAND

1 Roadbox  
bentonite

Ground Elevation:

Top of Riser Elevation:

L1= 0  
L2= 0.5'  
L3= 0.5'  
L4= 2'  
L5= no free H<sub>2</sub>O  
L6= 4' ^ 4'  
L7= 3'



Vented Cap

L.D. of Riser  
Pipe:

Type of Pipe: #40 PVC

Type of Backfill Around  
Riser: soil

Top of Seal:

Type of Seal

Material: bentonite

Top of Filter:

Type of Filter

Material: SAND

Size of Openings: 0.01

Diameter of Monitor Well

Tip: 1"

Bottom of Boring:

Elevation:

Diameter of

Boring: 2"

REMARKS:

Soil was wet from 16 to 36' but no free water in well  
refuse @ 3' on bedrock

PROJECT: <u>BO HASTINGS PH II</u>		SHEET	WELL NO.
SITE LOCATION <u>BRIDGEPORT CT</u>		1 of 1	<u>MW-3</u>
DRILL CONTRACTOR: <u>GLACIER</u>	ENG/GEO: <u>Sereno/Sheres</u>	DRILLER: <u>Jason</u>	Elevation: _____
INSTALLATION METHOD: <u>CE probe</u>			Total Depth: <u>3.5</u>
TYPE OF MONITORING WELL: <u>over burden</u>			DATE: <u>12/23</u>
			TIME: <u>1100</u>
			Ground Water (Depth/Elev.): _____

<b>MATERIALS USED</b>  <u>SH 40 PVC</u>  <u>old screen</u>	Ground Elevation: _____  Top of Riser Elevation: _____
L1= <u>8</u> L2= <u>8</u> L3= <u>1</u> L4= <u>2.5</u> L5= <u>8</u> L6= <u>8</u> L7= <u>3.5</u>	Vented Cap <u>KOARBOX</u>  I.D. of Riser Pipe: <u>1"</u> Type of Pipe: <u>SCH 40 PVC</u>  Type of Backfill Around Riser: _____  Top of Seal: <u>6cmite</u> Type of Seal Material: _____  Top of Filter: _____ Type of Filter Material: <u>SAND</u>  Size of Openings: <u>0.01</u>  Diameter of Monitor Well Tip: <u>2"</u>  Bottom of Boring: _____ Elevation: _____ Diameter of Boring: <u>2"</u>

REMARKS: refusal @ 3.5' bedrock

PROJECT: <u>80 HAIRING PHILL</u>		SHEET	WELL NO.
SITE LOCATION		1 of 1	<u>MW-4</u>
LOCATION:		Elevation:	Total Depth:
N: _____ E: _____			<u>4.5'</u>
DRILL CONTRACTOR: <u>CLARK</u>	ENG/GEO: <u>Serinity shores</u>	DRILLER: <u>Jason</u>	DATE: <u>12/22</u>
INSTALLATION METHOD: <u>GRUPROBE</u>			TIME:
TYPE OF MONITORING WELL:			Ground Water (Depth/Elev.):
			<u>dry</u>

MATERIALS USED	Ground Elevation:	
	Top of Riser Elevation:	
<u>Filter sand</u>		
	L1= <u>0</u>	Vented Cap
	L2= <u>0.5</u>	L.D. of Riser Pipe: <u>1"</u>
	L3= <u>1</u>	Type of Pipe: <u>SCP</u>
	L4= <u>3'</u>	<u>40 PVC</u>
	L5= <u>PP-4</u>	Type of Backfill Around Riser
	L6= <u>PP-4</u>	Top of Seal: <u>6 in.</u>
	L7= <u>4.5'</u>	Type of Seal
		Material:
		Top of Filter:
	Type of Filter	
	Material: <u>SAND</u>	
	Size of Openings: <u>0.01</u>	
	Diameter of Monitor Well	
	Tip:	
	Bottom of Boring:	
	Elevation:	
	Diameter of Boring: <u>2"</u>	

REMARKS: refusal @ bedrock 4.5' bgs

PROJECT: <u>50 HORIZON 1 PH II</u>		SHEET	WELL NO.
SITE LOCATION: <u>Bridge pond CT</u>		1 of 1	<u>MW-5</u>
DRILL CONTRACTOR: <u>Glacier</u>	ENG/GEO: <u>Shores Service</u>	DRILLER: <u>Jason</u>	Elevation: _____
INSTALLATION METHOD: <u>direct push geoprobe</u>			Total Depth: <u>2.5'</u>
TYPE OF MONITORING WELL:			DATE: <u>12/23</u>
			TIME: <u>10:30</u>
			Ground Water (Depth/Elev.): <u>dry</u>

MATERIALS USED	Ground Elevation: _____
	Top of Riser Elevation: _____

0.5'-1' SCH 40 PIPE

2' 0.01 screen

L1=	<u>0</u>
L2=	<u>0.25'</u>
L3=	<u>0.25'</u>
L4=	<u>2.25'</u>
L5=	<u>dry</u>
L6=	<u>0</u>
L7=	<u>2.5'</u>

2' screen

2.25' sand

0.25' bent.

REMARKS: 2.5' re fused @ bedrock



Well # MW-1  
Sample Time 1115-1145 & 1315-1330  
Page 1 of 1  
Date 01/06/09

Diameter of Well 2"

### Peristaltic pump

Weather: Cloudy mild 38°F high

	Top of Riser	Top of Protector
Depth to water( in hundredths of a foot)	2.26	
Depth to Bottom( in hundredths of a foot)		

Condition of Well		
Labeled	yes	no
Locked	yes	no
Condition	Good	Poor

[illegible]

1. Pump dial setting (300rpm 3/4 speed)
2.  $\mu$ Siemens per cm (same as  $\mu$ mhos/cm at 25°C)
3. Oxidation reduction potential (standard for Eh)
- 4). Per work plan if parameters do not stabilize after 30 minutes , collect sample and document.

### Field Personnel

Shores  
Gish

Signature of Sampler

Well # 11W  
Sample Time             
Page 1 of 1  
Date 01/06/09

	Top of Riser	Top of Protector
Depth to water( in hundredths of a foot)	2.15	
Depth to Bottom( in hundredths of a foot)		

Condition of Well		
Labeled	yes	no
Locked	yes	no
Condition	Good	Poor

Weather: cloudy mild 38°f

[illegible]

- Field Personnel Shores \_\_\_\_\_  
Gish \_\_\_\_\_

Signature of Sampler

Well # MW-3  
Sample Time —  
Page 1 of 1  
Date 01/06/09

Weather: Cloudy mild ~~72~~ 38°F

	Top of Riser	Top of Protector
Depth to water( in hundredths of a foot)	2.55	
Depth to Bottom( in hundredths of a foot)		

Condition of Well		
Labeled	yes	no
Locked	yes	no
Condition	Good	Bad

[illegible]

1. Pump dial setting (300rpm 3/4 speed)
2.  $\mu$ Siemens per cm (same as  $\mu$ mhos/cm at 25°C)
3. Oxidation reduction potential (standard for Eh)
- 4). Per work plan if parameters do not stabilize after 30 minutes , collect sample and document.

### Field Personnel

Shores  
Gish

Signature of Sampler



22

Well # MW-4  
Sample Time             
Page 1 of 1  
Date 01/06/09

Project Name	Groundwater Monitoring
Project Number	60045450
Location (Site/Facility Name):	80 Hastings St, Bridgeport, CT
Pump Intake depth (ft below MP):	
Identify Measuring Point (MP):	Riser (PVC) SS

Diameter of Well 2"

Purging Device; (pump type):

**Weather:**

Riser	PVC	SS
Protector	PVC	SS
PID		

### Peristaltic pump

Cloudy mild 38°F

	Top of Riser	Top of Protector
Depth to water( in hundredths of a foot)	3.71	
Depth to Bottom( in hundredths of a foot)		

Condition of Well		
Labeled	yes	no
Locked	yes	no
Condition	Good	Poor

[illegible]

1. Pump dial setting (300rpm 3/4 speed)
2.  $\mu$ Siemens per cm (same as  $\mu$ mhos/cm at 25°C)
3. Oxidation reduction potential (standard for Eh)
- 4). Per work plan if parameters do not stabilize after 30 minutes , collect sample and document.

### Field Personnel

Shores  
Gash

Signature of Sampler



1.75 Well # NW-5  
 Sample Time \_\_\_\_\_  
 Page 1 of 1  
 Date 01/06/09

Diameter of Well 2"

Weather: cloudy mild 38°F

	Top of Riser	Top of Protector
Depth to water( in hundredths of a foot)	NA	
Depth to Bottom( in hundredths of a foot)	NA	

Condition of Well		
Labeled	yes	no
Locked	yes	no
Condition	Good	Poor

[illegible]

- ### Field Personnel

Shores  
CASH

Signature of Sampler





49 Woodside Street Stamford, CT 06902

January 2, 2009

Metcalf & Eddy, Inc.  
An AECOM Company  
860 North Main Street Ext.  
Wallingford, CT 06492  
Attn.: Lucas Hellerich

Re: 80 Hastings Street (TCLP Results)  
Bridgeport, CT

Dear Mr. Hellerich:

On September 9 and December 23, 2008, I visited the above referenced site to perform pre-demolition lead sampling of different building materials on the three sections of the building that will be disturbed during demolition activities. Painted materials that will be disposed of during demolition were sampled for soluble lead (TCLP test) to determine if they could be disposed of as general construction waste.

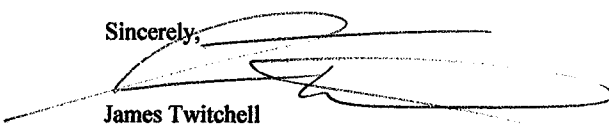
The samples collected were delivered to Schneider Laboratories where they were analyzed by EPA SW846 Method 1311 (TCLP) with lead analysis by EPA 7420 method. The results of the analysis were as follows:

<u>MATERIAL</u>	<u>RESULT</u>	<u>EPA LEVEL</u>
Section #3 Interior Brick Wall	<0.2 mg/L	5.0 mg/L
Section #3 Interior Block Wall	0.6 mg/L	5.0 mg/L
Section #3 Interior Wood	1.4 mg/L	5.0 mg/L
Section #1 & #2 Outer Block Wall	2.0 mg/L	5.0 mg/L
Section #3 Outer Block Walls	0.2 mg/L	5.0 mg/L

The results of the analysis showed that all of the materials to be disturbed are below the EPA level of 5.0 mg/L. In consideration of the laboratory results, the material can be disposed of as general construction waste. Detailed laboratory results are attached to the report.

If there are any questions, comments or concerns please do not hesitate to reach me at (203) 324-3635. Thank-you.

Sincerely,



James Twitchell  
HYGENIX, Inc.

# SCHNEIDER LABORATORIES

INCORPORATED

2512 W. Cary Street • Richmond, Virginia • 23220-5117  
804-353-6778 • 800-785-LABS (5227) • (FAX) 804-359-1475

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AIHA/ELLAP 100527, NVLAP 101150-0, NYELAP/NELAC 11413, CAELAP 2078, NC 593, SC 93003

## LABORATORY ANALYSIS REPORT

Lead Analysis based on EPA 7000B Method and EPA SW846 Method 1311 (TCLP)

Using SLI P33 A14

ACCOUNT #: 117-08-1634  
CLIENT: HYGENIX, INC.  
ADDRESS: 49 Woodside St  
Stamford, CT 06902

DATE COLLECTED: 9/9/2008  
DATE RECEIVED: 12/26/2008  
DATE ANALYZED: 12/30/2008  
DATE REPORTED: 12/30/2008

PROJECT NAME:

JOB LOCATION: 80 Hastings St

PROJECT NO.:

PO NO.:

Sample Type: TCLP

SLI Sample No.	Client Sample No.	Sample Description	Initial pH	Lead Conc. (mg/L)*
30018577	01	Section 3 Int Brick Wall	9.40	< 0.2
30018578	02	Section 3 Int Brick Wall	8.73	0.6
30018579	03	Section 3 Int Wood	6.77	1.4
30018580	04	Section 1&2 Outer Walls	6.84	2.0
30018581	05	Section 3 Outer Walls	8.85	0.2

Analysis Run ID: 42798

Analyst: ABISOLA O. KASALI

Total Number of Pages in Report: 1

Results relate only to samples as received by the laboratory.

Reviewed By

Mohammed Ettilib, Analyst

Visit [www.slabinc.com](http://www.slabinc.com) for current certifications.

Minimum Reporting Limit: 0.2 mg/L lead concentration. EPA Regulatory Limit is 5.0 mg/l. All internal QC parameters were met.  
\*Data precision justifies 2 significant figures. Unusual sample conditions, if any, are described. All testing is performed in strict accordance with Schneider Laboratories, Inc. protocol. Note on measurement units: mg/l = ppm (parts per million)





**REVISED PRE-DEMOLITION LEAD-BASED PAINT SCREENING**

**INSPECTION SITE:** 80 Hastings Street  
Bridgeport, CT

**CLIENT:** Metcalf & Eddy, Inc.  
An AECOM Company  
860 North Main Street Ext.  
Wallingford, CT 06492  
Attn.: Lucas Hellerich

**INSPECTOR:** James Twitchell (CT Lead Inspector/Risk Assessor - 001822)

**INSPECTION DATE:** September 9, 2008 & December 23, 2008

**SITE INFORMATION:**

Type of Buildings:	Commercial
Type of Survey:	Pre-Demolition Lead Screening
# of Samples:	49 (09/09/08) 81 (12/23/08)

---

**BACKGROUND**

James M. Twitchell performed the pre-demolition lead-based paint screening, for the above mentioned building, on September 9, 2008 and Jason Gemmell did the follow-up inspection on December 23, 2008. The purpose of the inspections is to give a general idea as to the presence and location of lead-based paint (LBP) on the interior and exterior surfaces of the buildings and determine if TCLP lead samples are required. The lead content of the paint on building components was analyzed at the site using an X-Ray Fluorescence Analyzer (Niton XL & Niton XLp 300A).

**INTRODUCTION**

Paint containing high levels of lead has been widely used on houses, apartments and commercial buildings. Although lead-based paint was phased out during the 1970's, many buildings constructed before this time still contain layers of the older lead-based paint.

Exposure to lead-based paint may cause a variety of adverse health effects. Children are particularly susceptible to the effects of lead exposure and may suffer subtle learning deficiencies from ingestion of lead paint chips and/or inhalation of lead dust. Extensive regulations have been developed by State and Federal agencies to address the problem of lead exposure in homes, in child day care facilities, in the workplace, and in the environment.

# LEAD-BASED PAINT INVESTIGATION REPORT

## **XRF LEAD-BASED PAINT SCREENING SURVEY (see Attachment 1)**

The lead content of paint was tested on the interior and exterior of the buildings using an X-Ray Fluorescence Analyzer (Niton Model XL & XLp 300A).

The Niton analyzer is a screening device capable of measuring the lead content of surfaces covered with multiple layers of paint. The Niton XL & XLp 300A readings are not affected by the composition of the substrate materials. Each time the Niton XL & XLp 300A is turned on, an electronic calibration is automatically performed. Prior to testing and periodically throughout the survey, the calibration of the analyzer is checked on a surface with a known lead concentration.

Protocols for the assessment of lead in paint are outlined in guidelines published by the US Department of Housing and Urban Development (HUD) and in regulations enforced by Connecticut Department of Health Services (CT-DOHS). In accordance with these protocols, the results of testing with the Niton XL & XLp 300A may be interpreted as follows:

*Toxic Levels of Lead* = Readings greater than or equal to 1.0 mg/cm2\*

\*Note: OSHA does not currently define a threshold level of lead in paint, which may cause exposure above the action level (AL) and/or permissible exposure limit (PEL). OSHA requires exposure monitoring when lead is identified in paint at any amount to determine lead dust levels.

## **RESULTS**

Of the one hundred and thirty (130) readings collected at the site, fourteen (14) of them were for calibrating the machine and five (5) surfaces were identified as lead containing. All similar surfaces, to those found to be lead containing and not tested, should be assumed positive for lead. The following is a list of items that were identified as lead containing:

1. Section #3 - Interior Window Casing
2. Section #3 - Interior Concrete Walls
3. Section #3 - Interior Brick Walls

The results of this survey are shown on the attached XRF data sheet and the general location of positive samples is noted on the attached maps.

# **LEAD-BASED PAINT INVESTIGATION REPORT**

## **LIMITATIONS**

**HYGENIX, Inc. has performed its services, within the limits prescribed by our clients, with the usual thoroughness and competence of the industrial hygiene profession.**

**The findings in this report are based upon observations and information available to the inspector during the time of the rendering of the services as described in this report and are based on procedures currently required by applicable laws, regulations and ordinances. HYGENIX cannot be responsible for conditions or materials the inspector did not observe due to lack of access or was not otherwise reasonably observable. The conclusions in this report are professional opinions based solely upon these findings. The findings and conclusions are intended exclusively for the purpose outlined herein within the scope of work and at the site location and project indicated.**

**This report is for the sole use of the client. The scope of work performed in execution of this inspection may not be appropriate to satisfy the needs of other users and any reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.**

**Inspector** 

**Date** 01/02/09

# **LEAD-BASED PAINT INVESTIGATION REPORT**

**XRF FIELD DATA  
80 HASTINGS STEET  
BRIDGEPORT, CT**

Serial #XL309-U698NR8351 Site: 80 Hastings Street, Bridgeport, CT Date: 9/9/2008

	XLNo	Site	Insp	Side	Room	Source	Sub	Feat	Date/Time	Cycle	Result	Pbc ± Prc
2			JMT		Calibrate				9/9/2008 14:45:28	1 of 1	POS	1.17 ± 0.20
3			JMT		Calibrate				9/9/2008 14:46:02	1 of 1	POS	2.08 ± 0.51
4			JMT		Calibrate				9/9/2008 14:46:26	1 of 1	POS	1.31 ± 0.30
5			JMT	A	Section #1	Wall	Concrete		9/9/2008 14:49:18	1 of 1	NEG	0.00 ± 0.01
6			JMT	B	Section #1	Wall	Concrete		9/9/2008 14:49:54	1 of 1	NEG	0.00 ± 0.02
7			JMT	C	Section #1	Wall	Concrete		9/9/2008 14:50:36	1 of 1	NEG	0.00 ± 0.07
8			JMT	D	Section #1	Wall	Concrete		9/9/2008 14:51:13	1 of 1	NEG	0.00 ± 0.04
9			JMT	B	Section #1	Door	Wood		9/9/2008 14:51:45	1 of 1	NEG	0.00 ± 0.01
10			JMT	C	Section #1	Door	Wood	Casing	9/9/2008 14:52:16	1 of 1	NEG	0.00 ± 0.02
11			JMT	C	Section #1	Door	Metal	Jamb	9/9/2008 14:52:36	1 of 1	NEG	0.22 ± 0.16
12			JMT	D	Section #1	Stairs	Metal		9/9/2008 14:53:35	1 of 1	NEG	0.01 ± 0.02
13			JMT	B	Section #1	I-Beam	Metal		9/9/2008 14:54:22	1 of 1	NEG	0.00 ± 0.01
14			JMT	B	Section #1	Railing	Metal		9/9/2008 14:55:01	1 of 1	NEG	0.00 ± 0.01
15			JMT	A	Section #2	Wall	Drywall		9/9/2008 14:55:38	1 of 1	NEG	0.00 ± 0.01
16			JMT	A	Section #2	I-Beam	Metal		9/9/2008 14:56:21	1 of 1	NEG	0.17 ± 0.18
17			JMT	A	Section #2	Door	Wood		9/9/2008 14:57:09	1 of 1	NEG	0.00 ± 0.04
18			JMT	A	Section #2	Door	Metal	Casing	9/9/2008 14:57:29	1 of 1	NEG	0.00 ± 0.01
19			JMT	A	Section #2	Wall	Concrete		9/9/2008 14:58:16	1 of 1	NEG	0.01 ± 0.10
20			JMT	C	Section #2	Wall	Concrete		9/9/2008 14:59:08	1 of 1	NEG	0.00 ± 0.02
21			JMT	A	Section #2	Door	Metal	Jamb	9/9/2008 14:59:46	1 of 1	NEG	0.09 ± 0.30
22			JMT	A	Section #2	Door	Metal		9/9/2008 15:00:20	1 of 1	NEG	0.00 ± 0.09
23			JMT	A	Section #3	Wall	Concrete		9/9/2008 15:01:02	1 of 1	NEG	0.02 ± 0.20
24			JMT	A	Section #3	Wall	Concrete		9/9/2008 15:01:43	1 of 1	NEG	0.00 ± 0.05
25			JMT	B	Section #3	Wall	Concrete		9/9/2008 15:02:07	1 of 1	NEG	0.00 ± 0.11
26			JMT	B	Section #3	Wall	Concrete		9/9/2008 15:03:52	1 of 1	NEG	0.03 ± 0.16
27			JMT	C	Section #3	Wall	Concrete		9/9/2008 15:04:21	1 of 1	NEG	-0.46 ± 0.92
28			JMT	C	Section #3	Wall	Concrete		9/9/2008 15:05:20	1 of 1	NEG	0.06 ± 0.36
29			JMT	C	Section #3	I-Beam	Metal		9/9/2008 15:05:46	1 of 1	NEG	0.00 ± 0.03
30			JMT	C	Section #3	I-Beam	Metal		9/9/2008 15:05:46	1 of 1	NEG	0.00 ± 0.02
31			JMT	C	Section #3	Door	Wood	Jamb	9/9/2008 15:06:10	1 of 1	NEG	0.00 ± 0.02
32			JMT	C	Section #3	Window	Wood	Casing	9/9/2008 15:06:32	1 of 1	POS	1.82 ± 0.63
33			JMT	C	Section #3	Interior Wall	Brick		9/9/2008 15:07:21	1 of 1	NEG	0.87 ± 0.37
34			JMT	C	Section #3	Interior Wall	Concrete		9/9/2008 15:10:52	1 of 1	POS	1.65 ± 0.59
35			JMT	C	Section #3	Window	Wood	Casing	9/9/2008 15:12:15	1 of 1	NEG	0.00 ± 0.02
36			JMT	C	Section #3	Shelves	Wood		9/9/2008 15:12:32	1 of 1	NEG	0.15 ± 0.29
37			JMT	C	Section #3	Interior Wall	Wood		9/9/2008 15:12:59	1 of 1	NEG	0.01 ± 0.23
38			JMT	D	Section #3	Door	Wood	Jamb	9/9/2008 15:14:27	1 of 1	NEG	0.00 ± 0.04
39			JMT	D	Section #3	Wall	Concrete		9/9/2008 15:15:25	1 of 1	NEG	0.02 ± 0.33
40			JMT	D	Section #3	Wall	Concrete		9/9/2008 15:15:42	1 of 1	NEG	0.12 ± 0.15
41			JMT		Section #3	I-Beam	Metal		9/9/2008 15:16:16	1 of 1	NEG	0.00 ± 0.01
42			JMT		Section #3	I-Beam	Metal		9/9/2008 15:16:52	1 of 1	NEG	0.06 ± 0.40
43			JMT		Section #3	I-Beam	Metal		9/9/2008 15:17:37	1 of 1	NEG	0.00 ± 0.01
44			JMT		Section #3	I-Beam	Metal		9/9/2008 15:18:11	1 of 1	NEG	0.01 ± 0.22
45			JMT		Section #3	I-Beam	Metal		9/9/2008 15:19:36	1 of 1	NEG	0.03 ± 0.13
46			JMT		Exterior	Wall	Concrete		9/9/2008 15:20:09	1 of 1	NEG	0.01 ± 0.14
47			JMT		Exterior	Wall	Concrete		9/9/2008 15:20:34	1 of 1	NEG	0.02 ± 0.14
48			JMT		Exterior	Wall	Concrete		9/9/2008 15:21:42	1 of 1	POS	1.11 ± 0.13
49			JMT		Calibrate				9/9/2008 15:22:15	1 of 1	POS	1.74 ± 0.34
49			JMT		Calibrate				9/9/2008 15:22:49	1 of 1	POS	1.18 ± 0.27



**HYGENIX, INC.**

49 Woodside Street, Stamford, CT 06902

Office 203-324-2222  
Fax 203-324-3876

HYGENIX, INC. - SUBSTRATE SIDE CONDITION COLOR REPORT FOR 01-05-09 16:47:20										Page 2 of 3	
NO.	DATE	TIME	LOCATION	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
38	2008-12-23	14:50	Roofing	Wood	A	DEFECTIVE	Yellow	2	First	POG	OFFICE
39	2008-12-23	14:03	Wall	Conc. Block	A	DEFECTIVE	Yellow	2	First	POG	OFFICE
40	2008-12-23	14:04	Beam	Metal	A	DEFECTIVE	Yellow	2	First	POG	OFFICE
41	2008-12-23	14:06	Steel	Metal	A	DEFECTIVE	Yellow	2	First	POG	OFFICE
42	2008-12-23	14:07	Wall	Conc. Block	A	DEFECTIVE		3	First	POG	OFFICE
43	2008-12-23	14:08	Wall	Conc. Block	B	DEFECTIVE		3	First	POG	OFFICE
44	2008-12-23	14:09	Wall	Conc. Block	C	DEFECTIVE		3	First	POG	OFFICE
45	2008-12-23	14:10	Wall	Conc. Block	D	DEFECTIVE		3	First	POG	OFFICE
46	2008-12-23	14:11	Beam	Metal	D	DEFECTIVE	Yellow	3	First	POG	OFFICE
47	2008-12-23	14:12	Roofing	Metal	E	DEFECTIVE	Yellow	3	First	POG	OFFICE
48	2008-12-23	14:13	Wall	Wood	A	INTACT	Yellow	3	First	POG	OFFICE
49	2008-12-23	14:14	Wall	Wood	B	INTACT	Yellow	3	First	POG	OFFICE
50	2008-12-23	14:15	Door	Wood	A	DEFECTIVE		3	First	POG	OFFICE
51	2008-12-23	14:15	Door Casing	Wood	A	DEFECTIVE		3	First	POG	OFFICE
52	2008-12-23	14:16	Door Jamb	Wood	A	DEFECTIVE		3	First	POG	OFFICE
53	2008-12-23	14:16	Stair Tread	Wood	A	DEFECTIVE	Yellow	3	First	POG	OFFICE
54	2008-12-23	14:18	Stair Stringer	Wood	A	DEFECTIVE	Yellow	3	First	POG	OFFICE
55	2008-12-23	14:19	Roofing Cup	Wood	A	DEFECTIVE	Yellow	3	First	POG	OFFICE
56	2008-12-23	14:19	Roofing Cup	Wood	A	DEFECTIVE	Yellow	3	First	POG	OFFICE
57	2008-12-23	14:22	Wall	Conc. Block	A	DEFECTIVE		3	First	POG	OFFICE
58	2008-12-23	14:23	Wall	Conc. Block	A	DEFECTIVE		3	First	POG	OFFICE
59	2008-12-23	14:23	Wall	Conc. Block	B	DEFECTIVE		3	First	POG	OFFICE
60	2008-12-23	14:24	Wall	Conc. Block	C	DEFECTIVE		3	First	POG	OFFICE
61	2008-12-23	14:24	Door	Metal	C	DEFECTIVE		3	First	POG	OFFICE
62	2008-12-23	14:25	Door Casing	Wood	C	DEFECTIVE	White	3	First	POG	OFFICE
63	2008-12-23	14:26	Wall	Brick	B	DEFECTIVE	White	3	First	POG	OFFICE
64	2008-12-23	14:26	Wall	Wood	A	DEFECTIVE	White	3	First	POG	OFFICE
65	2008-12-23	14:28	Wall	Conc. Block	B	DEFECTIVE	White	3	First	POG	OFFICE
66	2008-12-23	14:30	Door Casing	Wood	C	DEFECTIVE	White	3	First	POG	OFFICE
67	2008-12-23	14:31	Roofing Cup	Wood	D	DEFECTIVE	White	3	First	POG	OFFICE
68	2008-12-23	14:33	Roofing Cup	Wood	E	DEFECTIVE	White	3	First	POG	OFFICE
69	2008-12-23	14:35	Door	Wood	C	DEFECTIVE	White	3	First	POG	OFFICE
70	2008-12-23	14:36	Door Casing	Wood	C	DEFECTIVE	White	3	First	POG	OFFICE
71	2008-12-23	14:36	Door Jamb	Wood	C	DEFECTIVE	White	3	First	POG	OFFICE
72	2008-12-23	14:37	Wall	Wood	A	DEFECTIVE		3	First	POG	OFFICE
73	2008-12-23	14:40	Beam	Metal	A	DEFECTIVE	Yellow	3	First	POG	OFFICE
74	2008-12-23	14:42	Wall	Conc. Block	C	DEFECTIVE	Yellow	3	First	POG	OFFICE

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Jan 27 2009 11:26

P. 10



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2033243876

HYGENIX, INC

Jan 27 2009 11:28

Index	Date	Component	Substrate	Side	Condition	Color	Recoat	Test	Core	Inspector	Note	Result	PA
75	2008-12-23 14:43	Wm. Medium	Metal	C	DEFECTIVE		3		First	JOG		Negative	<LOD:0.04
76	2008-12-23 14:46	Ext. Siding	Conc. Block	C	DEFECTIVE		3		First	JOG		Negative	<LOD:0.03
77	2008-12-23 14:47	Ext. Siding	Conc. Block	C	DEFECTIVE		3		First	JOG		Negative	<LOD:0.03
78	2008-12-23 14:48	Ext. Siding	Conc. Block	A	DEFECTIVE		3		First	JOG		Negative	<LOD:0.03
79	2008-12-23 14:52	CALIBRATE FRONT			See Notes					JOG		Negative	<LOD:0.03
80	2008-12-23 14:52	CALIBRATE FRONT			See Notes					JOG		Positive	3.00 ± 1.50
81	2008-12-23 14:53	CALIBRATE FRONT			See Notes					JOG		Positive	1.50 ± 0.40

**REVISED ASBESTOS PRE-DEMOLITION SURVEY REPORT**

INSPECTION SITE: 80 Hastings Street  
Bridgeport, CT

CLIENT: Metcalf & Eddy, Inc.  
An AECOM Company  
860 North Main Street Ext.  
Wallingford, CT 06492  
Attn.: Lucas Hellerich

INSPECTOR: James Twitchell

INSPECTION DATES: September 9, 2008 & December 23, 2008

BUILDING TYPES: Commercial

SAMPLES COLLECTED: 163 collected / 55 analyzed (09/09/08) / 79 analyzed (12/23/08)

---

**BACKGROUND**

The building at the above referenced location is slated for demolition. Lucas Hellerich of Metcalf & Eddy Inc. hired HYGENIX, Inc. to document the presence of asbestos-containing building materials (ACBM'S), and to comment on the impact these materials will have on the proposed project. The results of the asbestos survey are presented in this report.

**ASBESTOS SAMPLING PROTOCOL**

During the inspection of accessible spaces, the inspectors identified "functional spaces or building systems" (e.g. dwelling spaces, storage rooms, boiler rooms, roof systems, heating systems, etc.), and categorized the construction materials within functional spaces and/or system as "homogeneous", based on uniformity in color, age, texture and use. The inspector then compiled a list of building materials suspected to contain asbestos, and recorded the condition, location and approximate quantity of homogeneous, suspect materials.

From each homogeneous area or building system, the inspectors collected representative "bulk" samples of construction materials suspected to contain asbestos.

Samples of suspect materials were analyzed at AmeriSci New York by polarized light microscopy (PLM) in accordance with EPA procedures. The National Voluntary Laboratory Approval Program (NVLAP) accredits AmeriSci New York to perform bulk asbestos analysis.



## INTERPRETATION OF TEST RESULTS

The regulations of CT Department of Public Health and the US EPA define *asbestos containing materials* (ACM's) as materials containing greater than 1-% asbestos. If one or more bulk samples of a homogeneous material are found to contain greater than 1-% asbestos, then all of the homogeneous material is classified as ACM.

The US OSHA Asbestos Construction Industry Standard requires designation as *presumed asbestos containing materials* (PACM's), all surfacing materials and thermal system insulation which have not been tested, or for which the number of samples collected and analyzed was less than the previously listed minimums. This requirement does not apply if the building in which the material is found was constructed after 1980.

The results of the PLM laboratory testing are summarized in Appendix A.

## GENERAL DISCUSSION - ASBESTOS ABATEMENT REGULATIONS

Asbestos management and abatement activities in the State of Connecticut are governed by the following State and federal regulations:

### 1. US EPA      National Emission Standards for Hazardous Air Pollutants (NESHAPs)

The NESHAPs regulations for asbestos prohibit the emission of airborne asbestos dust to the environment. These regulations require notification of the regional office of US EPA at least 10 days in advance of an asbestos abatement project involving more than 260 linear feet, 160 square feet, or 35 cubic feet of material containing more than 1% asbestos. The NESHAPs regulations require the asbestos-containing materials to be kept in a wet condition during handling and removal, and specify requirements for labeling, transport and disposal of asbestos waste.

### 2. US OSHA      Asbestos Construction Industry Standard

The OSHA Asbestos Construction Industry Standard protects workers who may be exposed to asbestos in construction. The OSHA standard specifies permissible exposure limits, and procedures for handling various forms and quantities of asbestos containing building materials. The standard describes regulated areas, exposure monitoring, respiratory protection and protective clothing, hygiene facilities, hazard communication, housekeeping, medical surveillance, record keeping, and worker training requirements.

### 3. CT DOPH      CT Standards for Asbestos Abatement

The CT regulations describe the allowable procedures for asbestos abatement, licensing of personnel involved in asbestos abatement, and reoccupancy testing requirements. A 10-day advance notification of the agency is required for asbestos removal projects involving more than 25 square feet or 10 linear feet of friable asbestos containing material.

## INVENTORY OF ASBESTOS CONTAINING BUILDING MATERIALS:

All asbestos containing materials must be removed from the building prior to demolition. A Connecticut licensed asbestos abatement contractor must remove the material.

### ALL SECTIONS (Exterior)

ACBM Description	Location (s) in Building	Estimated Quantity	Comments
Flashing/Cement	Roof Perimeter Edge	1,000 square feet	
Roll-Out Roofing	Pitched Roof Over Ladder	450 square feet	
Roof Field	Section #1 Roof	1,800 square feet	The roof was not accessible due to fire damage and must be assumed positive unless tested and proven to be asbestos free.

### SECTION #3 (Interior)

ACBM Description	Location (s) in Building	Estimated Quantity	Comments
Sink Insulation	Rear Offices & Labs (See Map)	5 sinks	1 sink is present in the 2 <sup>nd</sup> floor office.
9x9 Floor Tiles	- Hall Outside Lab (See Map) - Laboratory (See Map)	- 80 square feet - 500 square feet	There are two layers of tile, both must be removed as asbestos containing.
Tar Coated Wood	Acid Storage (See Map)	N/A	There is a pile of tar coated roofing debris in this area.
Fire Doors	See Map	4 doors	Samples were not submitted for this material. The material must be assumed asbestos containing unless it is sampled and found to be asbestos free.
Aircell Pipe Insulation	- Boiler Room - Rack Plating Area	- 100 linear feet - 3,000 square feet	The majority of the insulation in the Rack Plating area is on the floor due to pipe removal.
Compression Gaskets	- Boiler Room - Main Steam Line	- 20 gaskets - N/A	
Sheet Rock & Joint Compound	Interior Partition Walls & Ceilings	N/A	

### SECTION #2 (Interior)

ACBM Description	Location (s) in Building	Estimated Quantity	Comments
12x12 Floor Tiles	- 1 <sup>st</sup> Floor Offices - 2 <sup>nd</sup> Floor Offices	- 504 square feet - N/A	The 2 <sup>nd</sup> Floor has fallen through due to a large fire and is not accessible.
Gaskets & Insulation	Red Kilns	450 square feet	Samples were not submitted for this material. The material must be assumed asbestos containing unless it is sampled and found to be asbestos free.
Building Debris	2 <sup>nd</sup> Floor Offices, Storage Area, Waste, Waste and Acid Waste	3,000 square feet	The 2 <sup>nd</sup> floor and roof has fallen through due to a large fire and is not accessible. Floor tiles and roof cement were identified as asbestos containing which is mixed in with other building debris.

**SECTION #1 (Interior)**

<b>ACBM Description</b>	<b>Location (s) in Building</b>	<b>Estimated Quantity</b>	<b>Comments</b>
Sink Insulation	2 <sup>nd</sup> Floor	1 sink	
12x12 Gray Floor Tile	2 <sup>nd</sup> Floor	480 square feet	
Gaskets & Insulation	Kiln	450 square feet	
12x12 White Floor Tile	1 <sup>st</sup> Floor Office	130 square feet	
Styrofoam w/ Black Mastic	Loose in Bins (See Map)	N/A	

**INVENTORY OF NON-ASBESTOS CONTAINING MATERIALS:****EXTERIOR**

- Roof Penetration Flashing Cement
- Garage Door Caulk
- Window Putty/Glazing
- Section #2 & #3 Built-up Roofing
- Door & Window Caulk
- Silver Roofing
- Façade Mortar

**SECTION #3**

- 2x4 RF Ceiling Tiles
- 12x12 Floor Tile Adhesive
- Floor Debris in Block Oxide Room
- Floor Debris in Boiler Room
- Cove Base Adhesive
- 9x9 Floor Tile Mastic
- Floor Debris in Electrical
- Floor Debris in Main Area
- 12x12 Floor Tile
- 1x1 Ceiling Tiles
- Cinderblock Mortar

**SECTION #2**

- Cove Base Adhesive
- Stair Tread Adhesive
- Joint Compound
- Cinderblock Mortar
- 12x12 Tan Floor Tile Adhesive
- 2<sup>nd</sup> Floor 12x12 White FT Adhesive
- Elbow Residue (Seen only on one elbow)
- 2x4 RF Ceiling Tiles
- Sheet Rock

**SECTION #1**

- 2<sup>nd</sup> Floor Cove Base Adhesive
- 2<sup>nd</sup> Floor Ceiling Tile Adhesive
- Yellow Flooring
- Cinderblock Mortar
- 1<sup>st</sup> Floor 12x12 Top Layer FT & Adhesive
- 2<sup>nd</sup> Floor 12x12 Gray FT Adhesive
- 1<sup>st</sup> Floor Cove Base Adhesive
- Joint Compound
- 1<sup>st</sup> Floor 12x12 Bottom Layer FT Adhesive
- 2x4 RF Ceiling Tile
- Sheet Rock
- Vibration Cloth

## **LIMITATIONS**

**HYGENIX, Inc. has performed its services, within the limits prescribed by our clients, with the usual thoroughness and competence of the industrial hygiene profession.**

**The findings in this report are based upon observations and information available to the inspector during the time of the rendering of the services as described in this report and are based on procedures currently required by applicable laws, regulations and ordinances. HYGENIX cannot be responsible for conditions or materials the inspector did not observe due to lack of access or was not otherwise reasonably observable.**

**The conclusions in this report are professional opinions based solely upon these findings. The findings and conclusions are intended exclusively for the purpose outlined herein within the scope of work and at the site location and project indicated.**

**This report is for the sole use of the client. The scope of work performed in execution of this inspection may not be appropriate to satisfy the needs of other users and any reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.**

---

**James Twitchell**

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**Date**

## **APPENDIX A**

### **PLM BULK ASBESTOS ANALYSIS REPORTS**



**AmeriSci New York**

117 EAST 30TH STREET  
NEW YORK, NY 10016

TEL: (212) 679-8600 • FAX: (212) 679-9392

September 17, 2008

Hygenix, Inc.  
Attn: Robert Brown  
49 Woodside Street  
Stamford, CT 06902

RE: Hygenix, Inc.  
Job Number 208092387  
P.O. #Metcalf & Eddy  
Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Dear Robert Brown:

Enclosed are the results for PLM asbestos analysis of the following Hygenix, Inc. samples received at AmeriSci on Friday, September 12, 2008, for a 5 day turnaround:

Sample ID 09-09-01 through 09-09-66

The 66 samples contained in Zip Lock Bag were shipped to AmeriSci via Federal Express. These samples were prepared and analyzed according to the EPA Interim Method (EPA 600/M4-82-020 per 40 CFR 763, subpt F, App. A). The required analytical information, analysis results, analyst signature and laboratory identification is contained in the Analyst's Report.

This report relates ONLY to the sample analysis expressed as percent asbestos. AmeriSci assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology Accreditation requirements, mandates that this report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul J. Mucha". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Paul J. Mucha  
Laboratory Director

**AmeriSci New York**

117 EAST 30TH ST.  
NEW YORK, NY 10016  
TEL: (212) 679-8600 • FAX: (212) 679-3114

## PLM Bulk Asbestos Report

Hygenix, Inc.  
Attn: Robert Brown  
49 Woodside Street  
  
Stamford, CT 06902

**Date Received** 09/12/08    **AmeriSci Job #** 208092387  
**Date Examined** 09/17/08    **P.O. #**  
**Page** 1 **of** 12  
**RE:** Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-01 1 Location: Roof Perimeter Edge/Flashing/Cement  Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 3.0 % Other Material: Cellulose 20 %, Non-fibrous 77 %	208092387-01	Yes	3 % (by CVES) by Bella J. Chernis on 09/17/08
09-09-02 1 Location: Roof Perimeter Edge/Flashing/Cement  Analyst Description: Bulk Material Asbestos Types: Other Material:	208092387-02		NA/PS
09-09-03 1 Location: Roof Perimeter Edge/Flashing/Cement  Analyst Description: Bulk Material Asbestos Types: Other Material:	208092387-03		NA/PS
09-09-04 2 Location: Roof Penetrations/Flashing/Cement  Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile <1. % Other Material: Cellulose Trace, Synthetic fibers 12 %, Non-fibrous 88 %	208092387-04	Yes	Trace (<1 %) <sup>1</sup> (by CVES) by Bella J. Chernis on 09/17/08
09-09-05 2 Location: Roof Penetrations/Flashing/Cement  Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 10 %, Synthetic fibers 5 %, Non-fibrous 85 %	208092387-05	No	NAD (by CVES) by Bella J. Chernis on 09/17/08

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-06 2	208092387-06 Location: Roof Penetrations/Flashing/Cement	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 8 %, Synthetic fibers 5 %, Non-fibrous 87 %			
09-09-07 3	208092387-07 Location: Roof Main/Built-Up Roofing	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 5 %, Fibrous glass 2 %, Non-fibrous 93 %			
09-09-08 3	208092387-08 Location: Roof Main/Built-Up Roofing	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 20 %, Non-fibrous 80 %			
09-09-09 3	208092387-09 Location: Roof Main/Built-Up Roofing	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 10 %, Non-fibrous 90 %			
09-09-10 4	208092387-10 Location: Roof Top Layer/Silver Roofing	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Silver/Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Synthetic fibers 10 %, Non-fibrous 90 %			
09-09-11 4	208092387-11 Location: Roof Top Layer/Silver Roofing	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Silver/Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 15 %, Non-fibrous 85 %			



## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-12 4	208092387-12 Location: Roof Top Layer/Silver Roofing	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Silver/Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 15 %, Non-fibrous 85 %			
09-09-13 5	208092387-13 Location: Ladder Overhang/Roll Out Roofing	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 10 %, Non-fibrous 90 %			
09-09-14 5	208092387-14 Location: Ladder Overhang/Roll Out Roofing	Yes	2 % (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Cellulose 5 %, Non-fibrous 93 %			
09-09-15 5	208092387-15 Location: Ladder Overhang/Roll Out Roofing		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-16 6	208092387-16 Location: Garage Door/Caulk	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-17 6	208092387-17 Location: Garage Door/Caulk	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-18 6 Location: Garage Door/Caulk	208092387-18	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-19 7 Location: Door & Windows/Caulk	208092387-19	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Grey/Red, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-20 7 Location: Door & Windows/Caulk	208092387-20	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Grey/Red, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-21 7 Location: Door & Windows/Caulk	208092387-21	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-22 8 Location: Exterior Facade/Mortar	208092387-22	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Red, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-23 8 Location: Exterior Facade/Mortar	208092387-23	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Red, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-24 8 Location: Exterior Facade/Mortar	208092387-24	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Red, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-25 9 Location: Exterior Windows/Putty/Glazing	208092387-25	Yes	Trace (<1 %) <sup>1</sup> (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile <1. % Other Material: Non-fibrous 100 %			
09-09-26 9 Location: Exterior Windows/Putty/Glazing	208092387-26	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-27 9 Location: Exterior Windows/Putty/Glazing	208092387-27	Yes	Trace (<1 %) <sup>1</sup> (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Tan/Grey, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile <1. % Other Material: Non-fibrous 100 %			
09-09-28 10 Location: Section #3/2x4 RF CT	208092387-28	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Beige, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 20 %, Non-fibrous 30 %			
09-09-29 10 Location: Section #3/2x4 RF CT	208092387-29	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Beige, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 20 %, Non-fibrous 30 %			

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-30 10	208092387-30 Location: Section #3 - 2nd Floor/2x4 RF CT	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Beige, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 20 %, Non-fibrous 30 %			
09-09-31 11	208092387-31 Location: Section #3/Sink Insulation	Yes	5 % (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Pink, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 5.0 % Other Material: Cellulose 2 %, Non-fibrous 93 %			
09-09-32 11	208092387-32 Location: Section #3/Sink Insulation		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-33 11	208092387-33 Location: Section #3/Sink Insulation		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-34 12	208092387-34 Location: Section #3/Cove Base Adhesive	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-35 12	208092387-35 Location: Section #3/Cove Base Adhesive	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-36 12	208092387-36 Location: Section #3 - 2nd Floor/Cove Base Adhesive	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-37 13	208092387-37 Location: Section #3/Adhesive	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 3 %, Non-fibrous 97 % Comment:			
09-09-38 14	208092387-38 Location: Section #3/12x12 Floor Tile	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-39 13	208092387-39 Location: Section #3/Adhesive	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-40 14	208092387-40 Location: Section #3/12x12 Floor Tile	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-41 13	208092387-41 Location: Section #3 - 2nd Floor/Adhesive	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-42 14	208092387-42 Location: Section #3 - 2nd Floor/12x12 Floor Tile	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Tan/Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-43 15	208092387-43 Location: Section #3/Mastic	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-44 16	208092387-44 Location: Section #3/9x9 Gray FT	Yes	3 % (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 3.0 % Other Material: Non-fibrous 97 %			
09-09-45 17	208092387-45 Location: Section #3/Mastic	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 2 %, Non-fibrous 98 %			
09-09-46 18	208092387-46 Location: Section #3/9x9 White FT	Yes	5 % (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 5.0 % Other Material: Non-fibrous 95 %			

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-47 15	208092387-47 Location: Section #3/Mastic	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-48 16	208092387-48 Location: Section #3/9x9 Gray FT		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-49 17	208092387-49 Location: Section #3/Mastic	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-50 18	208092387-50 Location: Section #3/9x9 White FT		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-51 15	208092387-51 Location: Section #3/Mastic	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-52 16	208092387-52 Location: Section #3/9x9 Gray FT		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-53 17	208092387-53 Location: Section #3/Mastic	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-54 18	208092387-54 Location: Section #3/9x9 White FT		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-55 19	208092387-55 Location: Section #3/1x1 Ceiling Tile	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Beige, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 60 %, Fibrous glass 10 %, Non-fibrous 30 %			
09-09-56 19	208092387-56 Location: Section #3/1x1 Ceiling Tile	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Beige, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 60 %, Fibrous glass 10 %, Non-fibrous 30 %			
09-09-57 19	208092387-57 Location: Section #3/1x1 Ceiling Tile	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Beige, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 60 %, Fibrous glass 10 %, Non-fibrous 30 %			
09-09-58 20	208092387-58 Location: Section #3 - Block Oxide/Debris	No	NAD <sup>2</sup> (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Brown/White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			



## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-59 20	208092387-59 Location: Section #3 - Block Oxide/Debris	No	NAD <sup>2</sup> (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-60 20	208092387-60 Location: Section #3 - Block Oxide/Debris	No	NAD <sup>2</sup> (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-61 21	208092387-61 Location: Section #3 - Acid Storage/Roof Debris	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 10 %, Non-fibrous 90 %			
09-09-62 21	208092387-62 Location: Section #3 - Acid Storage/Roof Debris	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 15 %, Non-fibrous 85 %			
09-09-63 21	208092387-63 Location: Section #3 - Acid Storage/Roof Debris	No	NAD (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 15 %, Non-fibrous 85 %			
09-09-64 22	208092387-64 Location: Section #3 - Acid Storage/Tar Coated Wood	Yes	5 % (by CVES) by Bella J. Chernis on 09/17/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 5.0 % Other Material: Non-fibrous 95 %			

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street; Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-65 22	208092387-65 Location: Section #3 - Acid Storage/Tar Coated Wood		NA/PS

Analyst Description: Bulk Material  
Asbestos Types:  
Other Material:

09-09-66 22	208092387-66 Location: Section #3 - Acid Storage/Tar Coated Wood		NA/PS
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Analyst Description: Bulk Material  
Asbestos Types:  
Other Material:

### Reporting Notes:

- (1) TEM confirmation of PLM results recommended
- (2) Analysis Results For Soil, Dust, Or Debris May Be Highly Variable Because Of The Heterogeneous Nature Of These Samples

Analyzed by: Bella J. Chernis Bella Chernis

\*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480);

Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile,FR 59,146,38970,8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. ALHA Lab # 102843.

Reviewed By: 

END OF REPORT

208092387-

## BULK SAMPLE LOG

Client: Metcalf &amp; Eddy

Site: 80 Hastings Street

Bridgeport, CT

Type: PLM

Tech: JT

Date: 09/09/08

**HYGENIX, Inc.**

Environmental Consulting & Laboratory Services  
49 Woodside Street  
Stamford, CT 06902  
(203) 324-2222 (phone) (203) 324-3876 (fax)

LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	09-09-01	Roof Perimeter Edge	Flashing/Cement		
	09-09-02	"	"		
	09-09-03	"	"		
	09-09-04	Roof Penetrations	Flashing/Cement		
	09-09-05	"	"		
	09-09-06	"	"		
	09-09-07	Roof Main	Built-up Roofing		
	09-09-08	"	"		
	09-09-09	"	"		
	09-09-10	Roof Top Layer	Silver Roofing		
	09-09-11	"	"		
	09-09-12	"	"		
	09-09-13	Ladder Overhang	Roll Out Roofing		
	09-09-14	"	"		
	09-09-15	"	"		
	09-09-16	Garage Door	Caulk		
	09-09-17	"	"		
	09-09-18	"	"		

## CHAIN OF CUSTODY

Notes: 5 Day TAT. Till Positive

Please e-mail results to [jtwitchell@hygenix.com](mailto:jtwitchell@hygenix.com)Relinquished By: 

Date/Time:

Received By: 

Date/Time:



9/12

1043

208092387-

## BULK SAMPLE LOG

Client: Metcalf &amp; Eddy

Site: 80 Hastings Street

Bridgeport, CT

Type: PLM

Tech: JT

Date: 09/09/08

**HYGENIX, Inc.**

Environmental Consulting & Laboratory Services  
49 Woodside Street  
Stamford, CT 06902  
(203) 324-2222 (phone) (203) 324-3876 (fax)

LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	09-09-19	Door & Windows	Caulk		
	09-09-20	"	"		
	09-09-21	"	"		
	09-09-22	Exterior Façade	Mortar		
	09-09-23	"	"		
	09-09-24	"	"		
	09-09-25	Exterior Windows	Putty/Glazing		
	09-09-26	"	"		
	09-09-27	"	"		
	09-09-28	Section #3	2x4 RF CT		
	09-09-29	"	"		
	09-09-30	Section #3 - 2 <sup>nd</sup> Floor	"		
	09-09-31	Section #3	Sink Insulation		
	09-09-32	"	"		
	09-09-33	"	"		
	09-09-34	Section #3	Cove Base Adhesive		
	09-09-35	"	"		
	09-09-36	Section #3 - 2 <sup>nd</sup> Floor	"		

## CHAIN OF CUSTODY

Notes: 5 Day TAT. Till Positive

Please e-mail results to [jtwitchell@hygenix.com](mailto:jtwitchell@hygenix.com)

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\_\_\_\_\_ 9/12

1048

208092387-

## BULK SAMPLE LOG

Client: Metcalf &amp; Eddy

Site: 80 Hastings Street

Bridgeport, CT

Type: PLM

Tech: JT

Date: 09/09/08

**HYGENIX, Inc.**

Environmental Consulting & Laboratory Services  
49 Woodside Street  
Stamford, CT 06902  
(203) 324-2222 (phone) (203) 324-3876 (fax)

LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	09-09-37	Section #3	Adhesive		
	09-09-38	"	12x12 Floor Tile		
	09-09-39	"	Adhesive		
	09-09-40	"	12x12 Floor Tile		
	09-09-41	Section #3 - 2 <sup>nd</sup> Floor	Adhesive		
	09-09-42	"	12x12 Floor Tile		
	09-09-43	Section #3	Mastic		
	09-09-44	"	9x9 Gray FT		
	09-09-45	"	Mastic		
	09-09-46	"	9x9 White FT		
	09-09-47	"	Mastic		
	09-09-48	"	9x9 Gray FT		
	09-09-49	"	Mastic		
	09-09-50	"	9x9 White FT		
	09-09-51	"	Mastic		
	09-09-52	"	9x9 Gray FT		
	09-09-53	"	Mastic		
	09-09-54	"	9x9 White FT		

Notes: 5 Day TAT. Till Positive

Please e-mail results to [jtwitchell@hygenix.com](mailto:jtwitchell@hygenix.com)


## CHAIN OF CUSTODY

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_






  
 9/12 1242

208092387-

BULK SAMPLE LOG					
<b>Client:</b> Metcalf & Eddy <b>Site:</b> 80 Hastings Street <b>Bridgeport, CT</b>		<b>HYGENIX, Inc.</b> Environmental Consulting & Laboratory Services 49 Woodside Street Stamford, CT 06902 (203) 324-2222 (phone) (203) 324-3876 (fax)			
<b>Type:</b> PLM <b>Tech:</b> JT <b>Date:</b> 09/09/08					
LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	09-09-55	Section #3	1x1 Ceiling Tile		
	09-09-56	"	"		
	09-09-57	"	"		
	09-09-58	Section #3 - Black Oxide	Debris		
	09-09-59	"	"		
	09-09-60	"	"		
	09-09-61	Section #3 - Acid Storage	Roof Debris		
	09-09-62	"	"		
	09-09-63	"	"		
	09-09-64	Section #3 - Acid Storage	Tar Coated Wood		
	09-09-65	"	"		
	09-09-66	"	"		
	<del>09-09-67</del>				
	<del>09-09-68</del>				
	<del>09-09-69</del>				
	<del>09-09-70</del>				
	<del>09-09-71</del>				
	<del>09-09-72</del>				
Notes: 5 Day TAT. Till Positive Please e-mail results to <a href="mailto:jtwitchell@hygenix.com">jtwitchell@hygenix.com</a>					

CHAIN OF CUSTODY

Relinquished By: 	Date/Time: 	Received By: 	Date/Time: 9/12/08
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CO48

## PLM Bulk Asbestos Report

Hygenix, Inc.  
Attn: Robert Brown  
49 Woodside Street

Stamford, CT 06902

Date Received 12/26/08 AmeriSci Job # 208123455

Date Examined 12/27/08 P.O. #

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RE: Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-67 1 Location: Section #3 - Electrical, Debris	208123455-01	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Fibrous glass 2 %, Non-fibrous 98 %			
09-09-68 1 Location: Section #3 - Electrical, Debris	208123455-02	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Brown/Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 20 %, Fibrous glass 3 %, Non-fibrous 77 %			
09-09-69 1 Location: Section #3 - Electrical, Debris	208123455-03	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Brown/Black/Yellow, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 35 %, Fibrous glass 20 %, Non-fibrous 45 %			
09-09-70 2 Location: Section #3 - Main Area, Debris	208123455-04	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Grey/Tan, Heterogeneous, Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Cellulose 10 %, Wollastonite Trace, Non-fibrous 90 %			
09-09-71 2 Location: Section #3 - Main Area, Debris	208123455-05	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Grey, Homogeneous, Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Cellulose 2 %, Wollastonite Trace, Non-fibrous 98 %			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-72 2 Location: Section #3 - Main Area, Debris	208123455-06	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Beige, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-73 3 Location: Section #3, Compression Gasket	208123455-07	Yes	65 % (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Grey/Brown, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 65.0 % Other Material: Non-fibrous 35 %			
09-09-74 3 Location: Section #3, Compression Gasket	208123455-08		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-75 3 Location: Section #3, Compression Gasket	208123455-09		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-76 4 Location: Section #3, - Boiler Room, Debris	208123455-10	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite/Tan, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 30 %, Non-fibrous 70 %			
09-09-77 4 Location: Section #3, - Boiler Room, Debris	208123455-11	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 15 %, Non-fibrous 85 %			

See Reporting notes on last page



## PLM Bulk Asbestos Report

Metcalfe & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-78 4 Location: Section #3, - Boiler Room, Debris	208123455-12	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Beige/White, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 10 %, Fibrous glass 55 %, Non-fibrous 35 %			
09-09-79 5 Location: Section #1 - 2nd Floor, Cove Base Adhesive	208123455-13	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-80 5 Location: Section #1 - 2nd Floor, Cove Base Adhesive	208123455-14	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-81 5 Location: Section #1 - 2nd Floor, Cove Base Adhesive	208123455-15	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-82 6 Location: Section #1 - 2nd Floor, Adhesive	208123455-16	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-83 7 Location: Section #1 - 2nd Floor, 12x12 Gray FT	208123455-17	Yes	2 % (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalfe & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-84 6	208123455-18 Location: Section #1 - 2nd Floor, Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-85 7	208123455-19 Location: Section #1 - 2nd Floor, 12x12 Gray FT		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-86 6	208123455-20 Location: Section #1 - 2nd Floor, Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-87 7	208123455-21 Location: Section #1 - 2nd Floor, 12x12 Gray FT		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-88 8	208123455-22 Location: Section #1, 2x4 RF CT	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 25 %, Non-fibrous 25 %			
09-09-89 8	208123455-23 Location: Section #1, 2x4 RF CT	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 30 %, Non-fibrous 20 %			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-90 8	208123455-24 Location: Section #1, 2x4 RF CT	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 30 %, Non-fibrous 20 %			
09-09-91 9	208123455-25 Location: Section #1 - 2nd Floor, Ceiling Tile Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-92 9	208123455-26 Location: Section #1 - 2nd Floor, Ceiling Tile Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-93 9	208123455-27 Location: Section #1 - 2nd Floor, Ceiling Tile Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-94 10	208123455-28 Location: Section #1, Kiln Insulation	Yes	60 % (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 60.0 % Other Material: Fibrous glass 15 %, Non-fibrous 25 %			
09-09-95 10	208123455-29 Location: Section #1, Kiln Insulation		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-96 10	208123455-30 Location: Section #1, Kiln Insulation		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-97 11	208123455-31 Location: Section #1, Glue	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-98 12	208123455-32 Location: Section #1, 12x12 FT Bottom Layer	Yes	2 % (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			
09-09-99 11	208123455-33 Location: Section #1, Glue	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-100 13	208123455-34 Location: Section #1, 12x12 FT Top Layer	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-101 11	208123455-35 Location: Section #1, Glue	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-102 12	208123455-36 Location: Section #1, 12x12 FT Bottom Layer		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-103 11	208123455-37 Location: Section #1, Glue	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-104 13	208123455-38 Location: Section #1, 12x12 FT Top Layer	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-105 11	208123455-39 Location: Section #1, Glue	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-106 12	208123455-40 Location: Section #1, 12x12 FT Bottom Layer		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-107 11	208123455-41 Location: Section #1, Glue	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalfe & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-108 13 Location: Section #1, 12x12 FT Top Layer	208123455-42	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-109 14 Location: Section #1, Mastic On Styrofoam	208123455-43	Yes	6 % (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 6.0 % Other Material: Non-fibrous 94 %			
09-09-110 14 Location: Section #1, Mastic On Styrofoam	208123455-44		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-111 14 Location: Section #1, Mastic On Styrofoam	208123455-45		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-112 15 Location: Section #1, Yellow Flooring	208123455-46	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-113 15 Location: Section #1, Yellow Flooring	208123455-47	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-114 15	208123455-48 Location: Section #1, Yellow Flooring	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
09-09-115 16	208123455-49 Location: Section #1, - Office, Gray Cove Base Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-116 16	208123455-50 Location: Section #1, - Office, Gray Cove Base Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-117 16	208123455-51 Location: Section #1, - Office, Gray Cove Base Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-118 17	208123455-52 Location: Section #2, Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow/Black, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-119 18	208123455-53 Location: Section #2, 12x12 Tan FT	Yes	2 % (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalfe & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-120 17	208123455-54 Location: Section #2, Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow/Black, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-121 18	208123455-55 Location: Section #2, 12x12 Tan FT		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-122 17	208123455-56 Location: Section #2, Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow/Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-123 18	208123455-57 Location: Section #2, 12x12 Tan FT		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-124 19	208123455-58 Location: Section #2, 2x4 RF CT	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 45 %, Fibrous glass 30 %, Non-fibrous 25 %			
09-09-125 19	208123455-59 Location: Section #2, 2x4 RF CT	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 30 %, Non-fibrous 20 %			

See Reporting notes on last page



## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-126 19	208123455-60 Location: Section #2, 2x4 RF CT	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 30 %, Non-fibrous 20 %			
09-09-127 20	208123455-61 Location: Section #2, Red Furnace Insulation	Yes	35 % (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 35.0 % Other Material: Non-fibrous 65 %			
09-09-128 20	208123455-62 Location: Section #2, Red Furnace Insulation		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-129 20	208123455-63 Location: Section #2, Red Furnace Insulation		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-130 21	208123455-64 Location: Section #2, Stair Tread Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-131 21	208123455-65 Location: Section #2, Stair Tread Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-132 21	208123455-66 Location: Section #2, Stair Tread Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-133 22	208123455-67 Location: Section #2 - 2nd Floor, Mastic	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-134 23	208123455-68 Location: Section #2 - 2nd Floor, 12x12 White FT	Yes	3 % (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 3.0 % Other Material: Non-fibrous 97 %			
09-09-135 22	208123455-69 Location: Section #2 - 2nd Floor, Mastic	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-136 23	208123455-70 Location: Section #2 - 2nd Floor, 12x12 White FT		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-137 22	208123455-71 Location: Section #3 - 1st Floor, Mastic	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-138 23	208123455-72 Location: Section #3 - 1st Floor, White FT		NAPS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-139 24	208123455-73 Location: Section #2, Cove Base Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-140 24	208123455-74 Location: Section #2, Cove Base Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-141 24	208123455-75 Location: Section #2, Cove Base Adhesive	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-142 25	208123455-76 Location: Section #1, Sheetrock	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite/Tan, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 12 %, Non-fibrous 88 %			
09-09-143 25	208123455-77 Location: Section #2, Sheetrock	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite/Tan, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 10 %, Non-fibrous 90 %			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-144 25	208123455-78 Location: Section #3, Sheetrock	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite/Tan, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 15 %, Non-fibrous 85 %			
09-09-145 26	208123455-79 Location: Section #1, Joint Compound	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-146 26	208123455-80 Location: Section #1, Joint Compound	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-147 26	208123455-81 Location: Section #1, Joint Compound	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-148 26	208123455-82 Location: Section #2, Joint Compound	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-149 26	208123455-83 Location: Section #2, Joint Compound	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			

## PLM Bulk Asbestos Report

Metcalfe & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-150 26 Location: Section #2, Joint Compound	208123455-84	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
09-09-151 26 Location: Section #3, Joint Compound	208123455-85	Yes	2 % (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Cellulose Trace, Non-fibrous 98 %			
09-09-152 26 Location: Section #3, Joint Compound	208123455-86		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-153 26 Location: Section #3, Joint Compound	208123455-87		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
09-09-154 Location: Section #1, Vibration Cloth	208123455-88	No	NAD (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 25 %, Non-fibrous 75 %			
09-09-155 Location: Section #1, Sink Insulation	208123455-89	Yes	5 % (by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Beige, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 5.0 % Other Material: Non-fibrous 95 %			

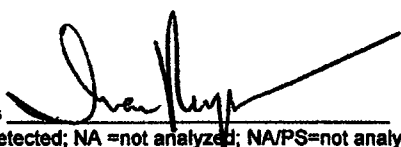
See Reporting notes on last page

Client Name: Hygenix, Inc.

**PLM Bulk Asbestos Report**

Metcalf &amp; Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09-09-156	208123455-90	No	NAD
Location: Section #2, Elbow Residual			(by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Beige, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 45 %, Fibrous glass 30 %, Non-fibrous 25 %			
09-09-157	208123455-91	Yes	45 %
Location: Section #3, Aircell Pipe Insulation			(by CVES) by Ivan H. Reyes on 12/27/08
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material			
Asbestos Types: Chrysotile 45.0 %			
Other Material: Cellulose 40 %, Non-fibrous 15 %			

**Reporting Notes:**Analyzed by: Ivan H. Reyes 




\*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480);

Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile,FR 59,146,38970,8/1/94). National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. AIHA Lab # 102843.

Reviewed By: \_\_\_\_\_


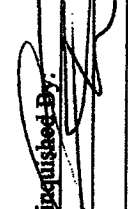

\_\_\_\_\_END OF REPORT\_\_\_\_\_







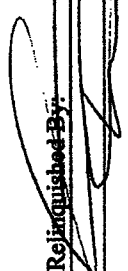

BULK SAMPLE LOG					
Client: Metcalf & Eddy		 <b>HYGENIX, Inc.</b> Environmental Consulting & Laboratory Services 49 Woodside Street Stamford, CT 06902 (203) 324-2222 (phone) (203) 324-3876 (fax)			
Site: 80 Hastings Street		Type: PLM			
Bridgeport, CT		Tech: JT			
2008123455		Date: 09/09/08			
LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	09-09-73	Section #3	Compression Gasket		
	09-09-74	"	"		
	09-09-75	"	"		
	09-09-76	Section #3 - Boiler Room	Debris		
	09-09-77	"	"		
	09-09-78	"	"		
	09-09-79	Section #1 - 2 <sup>nd</sup> Floor	Cove Base Adhesive		
	09-09-80	"	"		
	09-09-81	"	"		
	09-09-82	Section #1 - 2 <sup>nd</sup> Floor	Adhesive		
	09-09-83	"	12x12 Gray FT		
	09-09-84	"	Adhesive		
	09-09-85	"	12x12 Gray FT		
	09-09-86	"	Adhesive		
	09-09-87	"	12x12 Gray FT		
	09-09-88	Section #1	2x4 RF CT		
	09-09-89	"	"		
	09-09-90	"	"		
Notes: 5 Day TAT. Till Positive					
Please e-mail results to <a href="mailto:jtwitchell@hygienix.com">jtwitchell@hygienix.com</a>					
CHAIN OF CUSTODY					
Relinquished By:	Date/Time:	Received By:	Date/Time:		
			12/17/06		




1116



BULK SAMPLE LOG					
<b>Client:</b> Metcalf & Eddy <b>Site:</b> 80 Hastings Street <b>Bridgeport, CT</b> <b>208123455</b>		 <b>HYGENIX, Inc.</b> Environmental Consulting & Laboratory Services 49 Woodside Street Stamford, CT 06902 (203) 324-2222 (phone) (203) 324-3876 (fax)			
<b>Type:</b> PLM <b>Tech:</b> JT <b>Date:</b> 09/09/08					
LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	09-09-91	Section #1 - 2 <sup>nd</sup> Floor	Ceiling Tile Adhesive		
	09-09-92	"	"		
	09-09-93	"	"		
	09-09-94	Section #1	Kiln Insulation		
	09-09-95	"	"		
	09-09-96	"	"		
	09-09-97	Section #1	Glue		
	09-09-98	"	12x12 FT Bottom Layer		
	09-09-99	"	Glue		
	09-09-100	"	12x12 FT Top Layer		
	09-09-101	"	Glue		
	09-09-102	"	12x12 FT Bottom Layer		
	09-09-103	"	Glue		
	09-09-104	"	12x12 FT Top Layer		
	09-09-105	"	Glue		
	09-09-106	"	12x12 FT Bottom Layer		
	09-09-107	"	Glue		
	09-09-108	"	12x12 FT Top Layer		
CHAIN OF CUSTODY					
<b>Relinquished By:</b> 		<b>Received By:</b> 		<b>Date/Time:</b> 12/21	
Notes: 5 Day TAT. Till Positive Please e-mail results to <a href="mailto:jtwitchell@hygenix.com">jtwitchell@hygenix.com</a>					

BULK SAMPLE LOG					
Client: Metcalf & Eddy		<div>  <b>HYGENIX, Inc.</b>            Environmental Consulting &amp; Laboratory Services            49 Woodside Street            Stamford, CT 06902            (203) 324-2222 (phone) (203) 324-3876 (fax)         </div>			
Site: 80 Hastings Street		Type: PLM			
Bridgeport, CT		Tech: JT			
208123455		Date: 09/09/08			
LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	09-09-109	Section #1	Mastic on Styrofoam		
	09-09-110	"	"		
	09-09-111	"	"		
	09-09-112	Section #1	Yellow Flooring		
	09-09-113	"	"		
	09-09-114	"	"		
	09-09-115	Section #1 - Office	Gray Cove Base Adhesive		
	09-09-116	"	"		
	09-09-117	"	"		
	09-09-118	Section #2	Adhesive		
	09-09-119	"	12x12 Tan FT		
	09-09-120	"	Adhesive		
	09-09-121	"	12x12 Tan FT		
	09-09-122	"	Adhesive		
	09-09-123	"	12x12 Tan FT		
	09-09-124	Section #2	2x4 RF CT		
	09-09-125	"	"		
	09-09-126	"	"		
CHAIN OF CUSTODY					
Relinquished By: 		Received By: 		Notes: 5 Day TAT. Till Positive	
Date/Time:	Date/Time:	Date/Time:	Date/Time:	Please e-mail results to <a href="mailto:jtwitchell@hygenix.com">jtwitchell@hygenix.com</a>	
			12/26	1116	

BULK SAMPLE LOG					
Client: Metcalf & Eddy  Site: 80 Hastings Street  Bridgeport, CT		Type: PLM  Tech: JT  Date: 09/09/08			
<b>208123455</b>		 <b>HYGENIX, Inc.</b> Environmental Consulting & Laboratory Services 49 Woodside Street Stamford, CT 06902 (203) 324-2222 (phone) (203) 324-3876 (fax)			
LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	09-09-127	Section #2	Red Furnace Insulation		
	09-09-128	"	"		
	09-09-129	"	"		
	09-09-130	Section #2	Stair Tread Adhesive		
	09-09-131	"	"		
	09-09-132	"	"		
	09-09-133	Section #2 - 2 <sup>nd</sup> Floor	Mastic		
	09-09-134	"	12x12 White FT		
	09-09-135	"	Mastic		
	09-09-136	"	12x12 White FT		
	09-09-137	Section #2 - 1 <sup>st</sup> Floor	Mastic		
	09-09-138	"	12x12 White FT		
	09-09-139	Section #2	Cove Base Adhesive		
	09-09-140	"	"		
	09-09-141	"	"		
	09-09-142	Section #1	Sheet Rock		
	09-09-143	Section #2	"		
	09-09-144	Section #3	"		
CHAIN OF CUSTODY					
Requisitioned By:  Date/Time: _____ Received By:  Date/Time: <u>12/26/11</u>					
Notes: 5 Day TAT. Till Positive Please e-mail results to <a href="mailto:jtwitchell@hygenix.com">jtwitchell@hygenix.com</a>					

BULK SAMPLE LOG					
<b>Client:</b> Metcalf & Eddy <b>Site:</b> 80 Hastings Street <b>Bridgeport, CT</b>		<b>208123455</b>   			
<b>Type:</b> PLM  <b>Tech:</b> JT  <b>Date:</b> 09/09/08		 <b>HYGENIX, Inc.</b> Environmental Consulting & Laboratory Services 49 Woodside Street Stamford, CT 06902 (203) 324-2222 (phone) (203) 324-3876 (fax)			
LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	09-09-145	Section #1	Joint Compound		
	09-09-146	"	"		
	09-09-147	"	"		
	09-09-148	Section #2	"		
	09-09-149	"	"		
	09-09-150	"	"		
	09-09-151	Section #3	"		
	09-09-152	"	"		
	09-09-153	"	"		
	09-09-154	Section #1	Vibration Cloth		
	09-09-155	Section #1	Sink Insulation		
	09-09-156	Section #2	Elbow Residual		
	09-09-157	Section #3	Aircell Pipe Insulation		
Notes: 5 Day TAT. Till Positive Please e-mail results to <a href="mailto:jwitchell@hygienix.com">jwitchell@hygienix.com</a>					
CHAIN OF CUSTODY					
Relinquished By: 		Received By: 		Date/Time: 12/24/08	
Date/Time:		Date/Time:		1116	

## PLM Bulk Asbestos Report

Hygenix, Inc.  
Attn: Robert Brown  
49 Woodside Street

Stamford, CT 06902

Date Received 12/26/08 AmeriSci Job # 208123454

Date Examined 12/26/08 P.O. #

Page 1 of 2

RE: Metcalf &amp; Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
12-23-158 1 Location: Section #1 & #2, Cinderblock Mortar	208123454-01	No	NAD (by CVES) by Charmel A. Dozier on 12/26/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
12-23-159 1 Location: Section #1 & #2, Cinderblock Mortar	208123454-02	No	NAD (by CVES) by Charmel A. Dozier on 12/26/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
12-23-160 1 Location: Section #1 & #2, Cinderblock Mortar	208123454-03	No	NAD (by CVES) by Charmel A. Dozier on 12/26/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
12-23-161 2 Location: Section #3, Cinderblock Mortar	208123454-04	No	NAD (by CVES) by Charmel A. Dozier on 12/26/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
12-23-162 2 Location: Section #3, Cinderblock Mortar	208123454-05	No	NAD (by CVES) by Charmel A. Dozier on 12/26/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

See Reporting notes on last page

## PLM Bulk Asbestos Report

Metcalf & Eddy; 80 Hastings Street, Bridgeport, CT

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
12-23-163 2	208123454-06 Location: Section #3, Cinderblock Mortar	No	NAD (by CVES) by Charmel A. Dozier on 12/26/08
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

### Reporting Notes:

Analyzed by: Charmel A. Dozier

\*NAD/NSD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive. TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59.146, 38970, 8/1/84), National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab. This PLM report relates ONLY to the items tested. AIHA Lab # 102843.

Reviewed By: \_\_\_\_\_

\_\_\_\_\_END OF REPORT\_\_\_\_\_

208123454

## ASBESTOS PLM BULK SAMPLE LOG

Client: Metcalf &amp; Eddy

Site: 80 Hastings Street

Bridgeport, CT

Type: PLM

Tech: JT

Date: 12/23/08


**HYGENIX, Inc.**

Environmental Consulting & Laboratory Services  
49 Woodside Street  
Stamford, CT 06902  
(203) 324-2222 (phone) (203) 324-3876 (fax)

LAB ID#	SAMPLE #	SAMPLING LOCATION	DESCRIPTION	QTY.	RESULT
	12-23-158	Section #1 & #2	Cinderblock Mortar		
	12-23-159	"	"		
	12-23-160	"	"		
	12-23-161	Section #3	Cinderblock Mortar		
	12-23-162	"	"		
	12-23-163	"	"		

## CHAIN OF CUSTODY

Notes: 5 Day TAT. Till Positive

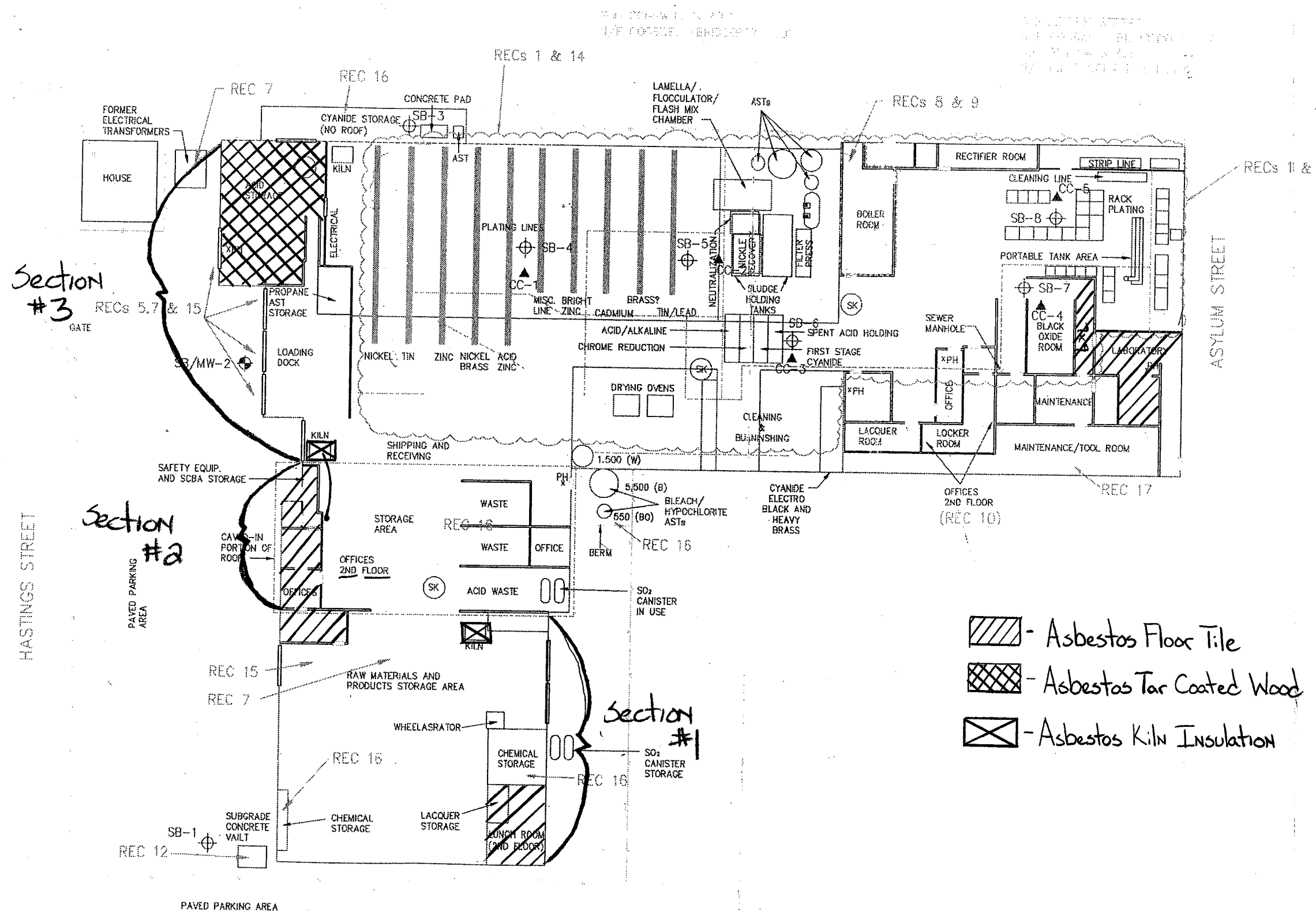
Please e-mail results to [jrwitche1@hygenix.com](mailto:jrwitche1@hygenix.com)Relinquished By:  Date/Time: Received By: 

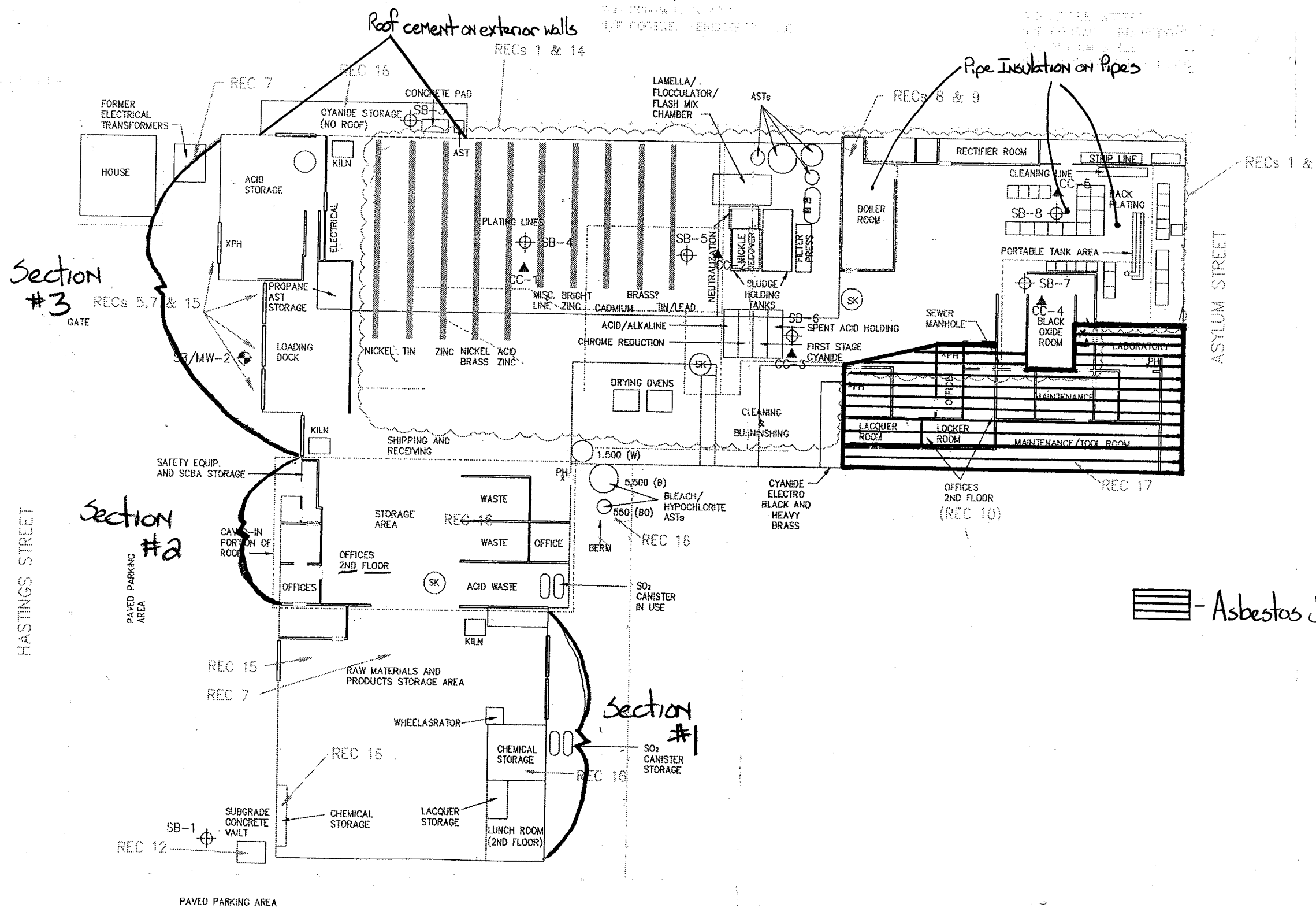
Date/Time: 12/26/08

## **APPENDIX B**

### **SITE MAPS**







Asbestos Joint Compound + Associated SR

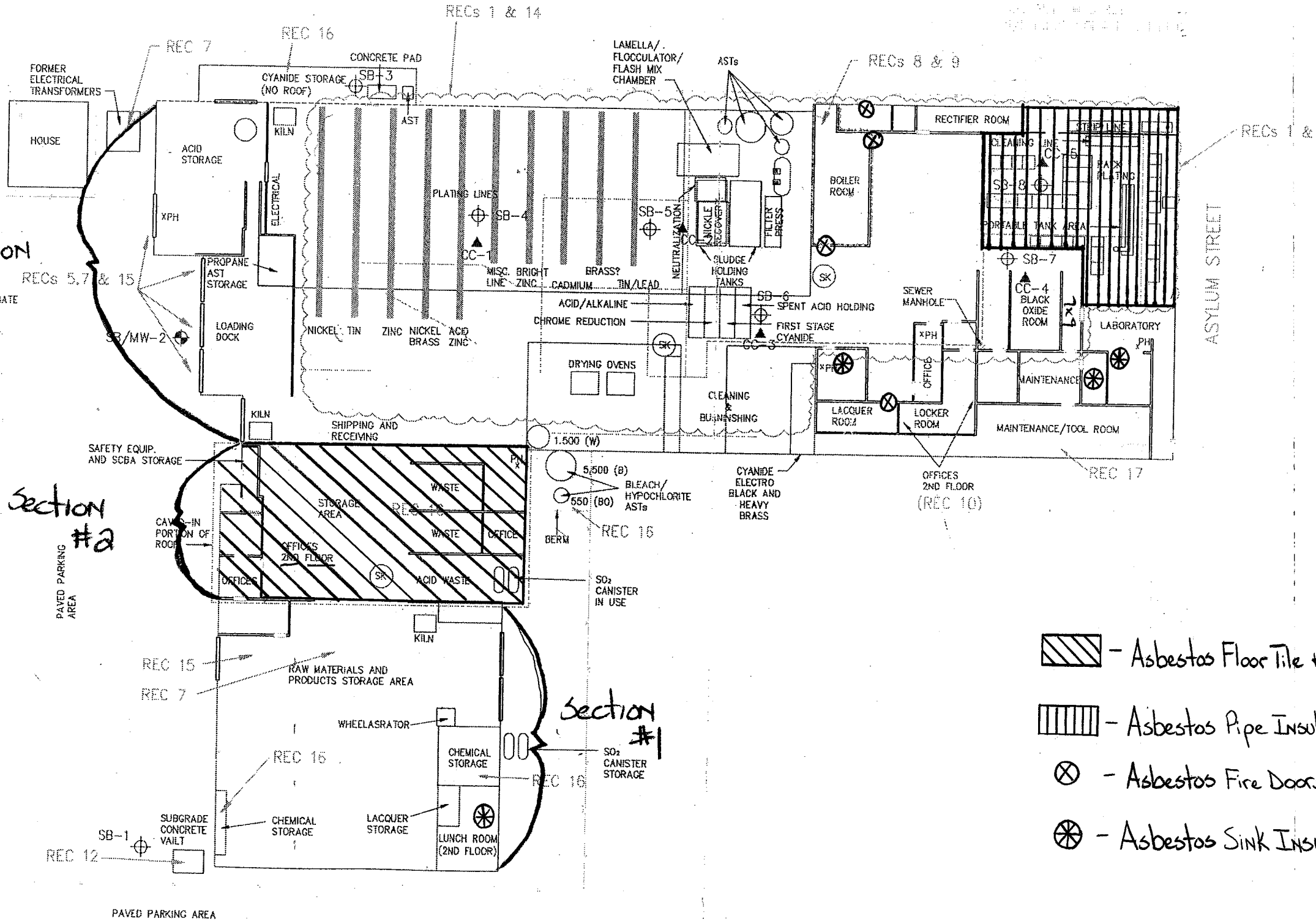
Section #3

RECs 5, 7 & 15

Section #2

PAVED PARKING AREA

Section #1



▨ - Asbestos Floor Tile + Roof Debris

||||| - Asbestos Pipe Insulation Debris

⊗ - Asbestos Fire Doors

⊗ - Asbestos Sink Insulation



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/2/2009

METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492  
ATTN: DANIEL SEREMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22296

JOB NUMBER: 60045450.04

PROJECT LOCATION: 80 HASTINGS ST, BRIDGEPORT, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
SB-12	08B50774	SOIL	Not Specified	as (mg/kg)dw icp	
SB-12	08B50774	SOIL	Not Specified	solids (percent)	
SB-13	08B50775	SOIL	Not Specified	8260 solid	
SB-13 DUP	08B50776	SOIL	Not Specified	8260 solid	
SB-14	08B50777	SOIL	Not Specified	8082 drywt	
SB-14	08B50777	SOIL	Not Specified	as (mg/kg)dw icp	
SB-14	08B50777	SOIL	Not Specified	solids (percent)	
SB-15	08B50778	SOIL	Not Specified	8082 drywt	
SB-15	08B50778	SOIL	Not Specified	as (mg/kg)dw icp	
SB-15	08B50778	SOIL	Not Specified	solids (percent)	
SB-16	08B50779	SOIL	Not Specified	etph dry weight	
SB-16	08B50779	SOIL	Not Specified	metals(13pp)sicp	
SB-16	08B50779	SOIL	Not Specified	solids (percent)	
SB-17	08B50780	SOIL	Not Specified	as (mg/kg)dw icp	
SB-17	08B50780	SOIL	Not Specified	solids (percent)	
SB-18	08B50781	SOIL	Not Specified	as (mg/kg)dw icp	
SB-18	08B50781	SOIL	Not Specified	solids (percent)	
SB-19	08B50782	SOIL	Not Specified	as (mg/kg)dw icp	
SB-19	08B50782	SOIL	Not Specified	solids (percent)	
SB-20	08B50783	SOIL	Not Specified	as (mg/kg)dw icp	
SB-20	08B50783	SOIL	Not Specified	solids (percent)	
SB-21	08B50784	SOIL	Not Specified	as (mg/kg)dw icp	
SB-21	08B50784	SOIL	Not Specified	solids (percent)	
SB-22	08B50785	SOIL	Not Specified	as (mg/kg)dw icp	
SB-22	08B50785	SOIL	Not Specified	solids (percent)	
SB-23	08B50786	SOIL	Not Specified	as (mg/kg)dw icp	
SB-23	08B50786	SOIL	Not Specified	solids (percent)	
SB-24	08B50787	SOIL	Not Specified	as (mg/kg)dw icp	
SB-24	08B50787	SOIL	Not Specified	solids (percent)	
SB-25	08B50788	SOIL	Not Specified	as (mg/kg)dw icp	
SB-25	08B50788	SOIL	Not Specified	solids (percent)	
SB-26	08B50789	SOIL	Not Specified	as (mg/kg)dw icp	
SB-26	08B50789	SOIL	Not Specified	solids (percent)	
SB-27	08B50790	SOIL	Not Specified	as (mg/kg)dw icp	
SB-27	08B50790	SOIL	Not Specified	solids (percent)	
SB-28	08B50791	SOIL	Not Specified	as (mg/kg)dw icp	
SB-28	08B50791	SOIL	Not Specified	solids (percent)	
SB-29	08B50792	SOIL	Not Specified	as (mg/kg)dw icp	
SB-29	08B50792	SOIL	Not Specified	solids (percent)	



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/2/2009

METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492  
ATTN: DANIEL SEREMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22296

JOB NUMBER: 60045450.04

SB-30	08B50793	SOIL	Not Specified	as (mg/kg)dw icp
SB-30	08B50793	SOIL	Not Specified	etph dry weight
SB-30	08B50793	SOIL	Not Specified	pb (mg/kg)dw icp
SB-30	08B50793	SOIL	Not Specified	solids (percent)
SB-31	08B50794	SOIL	Not Specified	as (mg/kg)dw icp
SB-31	08B50794	SOIL	Not Specified	solids (percent)
SB-32	08B50795	SOIL	Not Specified	as (mg/kg)dw icp
SB-32	08B50795	SOIL	Not Specified	etph dry weight
SB-32	08B50795	SOIL	Not Specified	pb (mg/kg)dw icp
SB-32	08B50795	SOIL	Not Specified	solids (percent)
SB-33	08B50796	SOIL	Not Specified	8260 solid
SB-34 0-2FT	08B50797	SOIL	Not Specified	as (mg/kg)dw icp
SB-34 0-2FT	08B50797	SOIL	Not Specified	solids (percent)



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/2/2009

METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492  
ATTN: DANIEL SEREMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22296  
JOB NUMBER: 60045450.04

Comments :

LIMS BATCH NO. : LIMIT-22296

#### CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples unless listed below:  
None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4°C +/- 2 degrees as specified on the chain-of-custody form unless listed below:  
All properly preserved

In method 8082, for Arochlor 1254 in sample 08B50778, result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. The higher result was reported.

In method 6010, the low level calibration verification is outside control limits for Zn. Reported results for this element at or near the reporting limit may be bias on the high side.

In method 8260, initial and/or continuing calibration did not meet method specifications. For all samples, Acetone, tert-Butyl Alcohol, 2-Butanone, Tetrahydrofuran, and 1,4-Dioxane were calibrated with a relative response factor <0.05.

In method 8260, any reported result for Dichlorodifluoromethane, Acetone, and tert-Butyl Alcohol in all samples is estimated and likely to be biased on the low side based on continuing calibration bias.

In method 8260, any reported result for 2,2-Dichloropropane and trans-1,4-Dichloro-2-butene in all samples is likely to be biased on the low side based on laboratory fortified blank (laboratory control sample) and duplicate recovery bias.

In method 8260, results were reported on a "wet weight" basis. No unpreserved samples were provided to determine the % solids.

There are no other analytical issues which affect the usability of the data.

#### DETAILED CASE NARRATIVE

#### METHOD SW846-7470A/7471A - ADDITIONAL COMMENTS

Sample duplicate and matrix spike performed on SOIL sample 08B50779.

#### METHOD SW846-6010 - ADDITIONAL COMMENTS

Only PP13 metals were requested and reported for sample 08B50779.

Only As was reported for samples 08B50774, 08B50777, 08B50778 and 08B50780 through 08B50797. Pb was reported for samples 08B50793 and 08B50795.

Sample duplicate and matrix spike performed on SOIL sample 08B50788.



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/2/2009

METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492  
ATTN: DANIEL SEREMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22296  
JOB NUMBER: 60045450.04

#### METHOD SW846 8082 - ADDITIONAL COMMENTS

If dilutions were performed, only one dilution within the linear calibrated region of the curve is reported.  
All 8082 samples were analyzed undiluted unless specified below: No dilutions were performed

#### CT ETPH METHOD - ADDITIONAL COMMENTS

In method CT ETPH samples 08B50779(x20), 08B50793(x10), and 08B50795(x20) were diluted because undiluted results were over the verified linear calibration range.

In method CT ETPH for samples 08B50779 and 08B50795, the surrogate concentration is below detection limit due to dilution required for sample analysis and could not be reported.

#### METHOD SW846 8260 SOIL - ADDITIONAL COMMENTS

The LCS recoveries for required CT reasonable confidence protocol (RCP) 8260 compounds were all within limits specified by the method except for "difficult analytes" where control limits somewhere between 40-160% are used and/or unless otherwise listed in this narrative:  
Difficult analytes: MIBK, MEK, Tetrachloroethylene, Tert-butyl Alcohol, Acetone, 1,4-Dioxane, Vinyl Chloride, Chloromethane, Dichlorodifluoromethane, 2-Hexanone, Naphthalene, and Bromomethane.  
Additional difficult analytes in water only: 2,2-Dichloropropane, and Tert-butylethyl Ether  
Additional difficult analytes in soil only: Acrylonitrile, Chloroethane, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, Methylene Chloride, n-Butylbenzene, and Tert-butylbenzene.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

*Edward Denson* 1/2/09

SIGNATURE

DATE

Tod Kopyscinski  
Air Laboratory Manager

Michael Erickson  
Assistant Laboratory Director

Edward Denson  
Technical Director

Daren Damboragian  
Organics Department Supervisor



---

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/2/2009

METCALF & EDDY - WALLINGFORD  
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WALLINGFORD, CT 06492  
ATTN: DANIEL SEREMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

**ANALYTICAL SUMMARY**

---

LIMS BAT #: LIMIT-22296

JOB NUMBER: 60045450.04

\* See end of data tabulation for notes and comments pertaining to this sample



DANIEL SEREMET  
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WALLINGFORD, CT 06492

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-14

Sample ID : 08B50777

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	mg/kg dry wt	ND	12/30/08	JMR	0.121		
PCB-1221	mg/kg dry wt	ND	12/30/08	JMR	0.121		
PCB-1232	mg/kg dry wt	ND	12/30/08	JMR	0.121		
PCB-1242	mg/kg dry wt	ND	12/30/08	JMR	0.121		
PCB-1248	mg/kg dry wt	ND	12/30/08	JMR	0.121		
PCB-1254	mg/kg dry wt	ND	12/30/08	JMR	0.121		
PCB-1260	mg/kg dry wt	ND	12/30/08	JMR	0.121		
PCB 1262	mg/kg dry wt	ND	12/30/08	JMR	0.121		
PCB 1268	mg/kg dry wt	ND	12/30/08	JMR	0.121		
Extraction Date PCBs		12/27/2008	12/30/08	JMR			

Field Sample #: SB-15

Sample ID : \*08B50778

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	mg/kg dry wt	ND	12/30/08	JMR	0.114		
PCB-1221	mg/kg dry wt	ND	12/30/08	JMR	0.114		
PCB-1232	mg/kg dry wt	ND	12/30/08	JMR	0.114		
PCB-1242	mg/kg dry wt	ND	12/30/08	JMR	0.114		
PCB-1248	mg/kg dry wt	ND	12/30/08	JMR	0.114		
PCB-1254	mg/kg dry wt	0.156	12/30/08	JMR	0.114		
PCB-1260	mg/kg dry wt	ND	12/30/08	JMR	0.114		
PCB 1262	mg/kg dry wt	ND	12/30/08	JMR	0.114		
PCB 1268	mg/kg dry wt	ND	12/30/08	JMR	0.114		
Extraction Date PCBs		12/27/2008	12/30/08	JMR			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

DANIEL SEREMET

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Analytical Method:

SW846 8081/8082

SAMPLES ARE EXTRACTED BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546),  
CONCENTRATED, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

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regulatory level for comparison with data to  
determine PASS (P) or FAIL (F) condition of results.

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-13

Sample ID: 08B50775

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	mg/kg	ND	12/30/08	LBD	0.27		
Acrylonitrile	mg/kg	ND	12/30/08	LBD	0.016		
tert-Amylmethyl Ether	mg/kg	ND	12/30/08	LBD	0.003		
Benzene	mg/kg	ND	12/30/08	LBD	0.006		
Bromobenzene	mg/kg	ND	12/30/08	LBD	0.006		
Bromochloromethane	mg/kg	ND	12/30/08	LBD	0.006		
Bromodichloromethane	mg/kg	ND	12/30/08	LBD	0.006		
Bromoform	mg/kg	ND	12/30/08	LBD	0.006		
Bromomethane	mg/kg	ND	12/30/08	LBD	0.027		
2-Butanone (MEK)	mg/kg	ND	12/30/08	LBD	0.11		
tert-Butyl Alcohol	mg/kg	ND	12/30/08	LBD	0.11		
n-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.006		
sec-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.006		
tert-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.006		
tert-Butylethyl Ether	mg/kg	ND	12/30/08	LBD	0.003		
Carbon Disulfide	mg/kg	ND	12/30/08	LBD	0.016		
Carbon Tetrachloride	mg/kg	ND	12/30/08	LBD	0.006		
Chlorobenzene	mg/kg	ND	12/30/08	LBD	0.006		
Chlorodibromomethane	mg/kg	ND	12/30/08	LBD	0.003		
Chloroethane	mg/kg	ND	12/30/08	LBD	0.054		
Chloroform	mg/kg	ND	12/30/08	LBD	0.011		
Chloromethane	mg/kg	ND	12/30/08	LBD	0.027		
2-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.006		
4-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.006		
1,2-Dibromo-3-Chloropropane	mg/kg	ND	12/30/08	LBD	0.006		
1,2-Dibromoethane	mg/kg	ND	12/30/08	LBD	0.003		
Dibromomethane	mg/kg	ND	12/30/08	LBD	0.006		
1,2-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.006		
1,3-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.006		

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-13

Sample ID: 08B50775

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,4-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.006		
trans-1,4-Dichloro-2-Butene	mg/kg	ND	12/30/08	LBD	0.011		
Dichlorodifluoromethane	mg/kg	ND	12/30/08	LBD	0.054		
1,1-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.006		
1,2-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.006		
1,1-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.011		
cis-1,2-Dichloroethylene	mg/kg	0.009	12/30/08	LBD	0.006		
trans-1,2-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.006		
1,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.006		
1,3-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.003		
2,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.006		
1,1-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.006		
cis-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.003		
trans-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.003		
Diethyl Ether	mg/kg	ND	12/30/08	LBD	0.054		
Diisopropyl Ether	mg/kg	ND	12/30/08	LBD	0.054		
1,4-Dioxane	mg/kg	ND	12/30/08	LBD	0.27		
Ethyl Benzene	mg/kg	ND	12/30/08	LBD	0.006		
Hexachlorobutadiene	mg/kg	ND	12/30/08	LBD	0.006		
2-Hexanone	mg/kg	ND	12/30/08	LBD	0.054		
Isopropylbenzene	mg/kg	ND	12/30/08	LBD	0.006		
p-Isopropyltoluene	mg/kg	ND	12/30/08	LBD	0.006		
MTBE	mg/kg	ND	12/30/08	LBD	0.011		
Methylene Chloride	mg/kg	ND	12/30/08	LBD	0.054		
MIBK	mg/kg	ND	12/30/08	LBD	0.054		
Naphthalene	mg/kg	ND	12/30/08	LBD	0.011		
n-Propylbenzene	mg/kg	ND	12/30/08	LBD	0.006		
Styrene	mg/kg	ND	12/30/08	LBD	0.006		
1,1,1,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.006		

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-13

Sample ID: 08B50775

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,1,2,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.003		
Tetrachloroethylene	mg/kg	ND	12/30/08	LBD	0.006		
Tetrahydrofuran	mg/kg	ND	12/30/08	LBD	0.027		
Toluene	mg/kg	0.010	12/30/08	LBD	0.006		
1,2,3-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.006		
1,2,4-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.006		
1,1,1-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.006		
1,1,2-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.006		
Trichloroethylene	mg/kg	0.013	12/30/08	LBD	0.006		
Trichlorofluoromethane	mg/kg	ND	12/30/08	LBD	0.027		
1,2,3-Trichloropropane	mg/kg	ND	12/30/08	LBD	0.006		
1,1,2-Trichloro-1,2,2-Trifluoroethane	mg/kg	ND	12/30/08	LBD	0.027		
1,2,4-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.006		
1,3,5-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.006		
Vinyl Chloride	mg/kg	ND	12/30/08	LBD	0.027		
m + p Xylene	mg/kg	ND	12/30/08	LBD	0.011		
o-Xylene	mg/kg	ND	12/30/08	LBD	0.006		

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR 1,4-DIOXANE AND TERT-BUTYLALCOHOL ARE ESTIMATED SINCE RESPONSE FACTORS FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

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\* = See end of report for comments and notes applying to this sample

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Purchase Order No.:

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-13 DUP

Sample ID: 08B50776

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	mg/kg	ND	12/30/08	LBD	0.18		
Acrylonitrile	mg/kg	ND	12/30/08	LBD	0.011		
tert-Amylmethyl Ether	mg/kg	ND	12/30/08	LBD	0.002		
Benzene	mg/kg	ND	12/30/08	LBD	0.004		
Bromobenzene	mg/kg	ND	12/30/08	LBD	0.004		
Bromochloromethane	mg/kg	ND	12/30/08	LBD	0.004		
Bromodichloromethane	mg/kg	ND	12/30/08	LBD	0.004		
Bromoform	mg/kg	ND	12/30/08	LBD	0.004		
Bromomethane	mg/kg	ND	12/30/08	LBD	0.018		
2-Butanone (MEK)	mg/kg	ND	12/30/08	LBD	0.069		
tert-Butyl Alcohol	mg/kg	ND	12/30/08	LBD	0.069		
n-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.004		
sec-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.004		
tert-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.004		
tert-Butylethyl Ether	mg/kg	ND	12/30/08	LBD	0.002		
Carbon Disulfide	mg/kg	ND	12/30/08	LBD	0.011		
Carbon Tetrachloride	mg/kg	ND	12/30/08	LBD	0.004		
Chlorobenzene	mg/kg	ND	12/30/08	LBD	0.004		
Chlorodibromomethane	mg/kg	ND	12/30/08	LBD	0.002		
Chloroethane	mg/kg	ND	12/30/08	LBD	0.035		
Chloroform	mg/kg	ND	12/30/08	LBD	0.007		
Chloromethane	mg/kg	ND	12/30/08	LBD	0.018		
2-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.004		
4-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.004		
1,2-Dibromo-3-Chloropropane	mg/kg	ND	12/30/08	LBD	0.004		
1,2-Dibromoethane	mg/kg	ND	12/30/08	LBD	0.002		
Dibromomethane	mg/kg	ND	12/30/08	LBD	0.004		
1,2-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.004		
1,3-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.004		

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-13 DUP

Sample ID: 08B50776

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,4-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.004		
trans-1,4-Dichloro-2-Butene	mg/kg	ND	12/30/08	LBD	0.007		
Dichlorodifluoromethane	mg/kg	ND	12/30/08	LBD	0.035		
1,1-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.004		
1,2-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.004		
1,1-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.007		
cis-1,2-Dichloroethylene	mg/kg	0.009	12/30/08	LBD	0.004		
trans-1,2-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.004		
1,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.004		
1,3-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.002		
2,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.004		
1,1-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.004		
cis-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.002		
trans-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.002		
Diethyl Ether	mg/kg	ND	12/30/08	LBD	0.035		
Diisopropyl Ether	mg/kg	ND	12/30/08	LBD	0.035		
1,4-Dioxane	mg/kg	ND	12/30/08	LBD	0.18		
Ethyl Benzene	mg/kg	ND	12/30/08	LBD	0.004		
Hexachlorobutadiene	mg/kg	ND	12/30/08	LBD	0.004		
2-Hexanone	mg/kg	ND	12/30/08	LBD	0.035		
Isopropylbenzene	mg/kg	ND	12/30/08	LBD	0.004		
p-Isopropyltoluene	mg/kg	ND	12/30/08	LBD	0.004		
MTBE	mg/kg	ND	12/30/08	LBD	0.007		
Methylene Chloride	mg/kg	ND	12/30/08	LBD	0.035		
MIBK	mg/kg	ND	12/30/08	LBD	0.035		
Naphthalene	mg/kg	ND	12/30/08	LBD	0.007		
n-Propylbenzene	mg/kg	ND	12/30/08	LBD	0.004		
Styrene	mg/kg	ND	12/30/08	LBD	0.004		
1,1,1,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.004		

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DANIEL SEREMET  
METCALF & EDDY - WALLINGFORD  
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WALLINGFORD, CT 06492

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-13 DUP

Sample ID: 08B50776

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,1,2,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.002		
Tetrachloroethylene	mg/kg	ND	12/30/08	LBD	0.004		
Tetrahydrofuran	mg/kg	ND	12/30/08	LBD	0.018		
Toluene	mg/kg	0.006	12/30/08	LBD	0.004		
1,2,3-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.004		
1,2,4-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.004		
1,1,1-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.004		
1,1,2-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.004		
Trichloroethylene	mg/kg	0.004	12/30/08	LBD	0.004		
Trichlorofluoromethane	mg/kg	ND	12/30/08	LBD	0.018		
1,2,3-Trichloropropane	mg/kg	ND	12/30/08	LBD	0.004		
1,1,2-Trichloro-1,2,2-Trifluoroethane	mg/kg	ND	12/30/08	LBD	0.018		
1,2,4-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.004		
1,3,5-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.004		
Vinyl Chloride	mg/kg	ND	12/30/08	LBD	0.018		
m + p Xylene	mg/kg	ND	12/30/08	LBD	0.007		
o-Xylene	mg/kg	ND	12/30/08	LBD	0.004		

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR 1,4-DIOXANE AND TERT-BUTYLALCOHOL ARE ESTIMATED SINCE RESPONSE FACTORS FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

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860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

Purchase Order No.:

1/2/2009

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-33

Sample ID: 08B50796

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	mg/kg	ND	12/30/08	LBD	0.097		
Acrylonitrile	mg/kg	ND	12/30/08	LBD	0.006		
tert-Amylmethyl Ether	mg/kg	ND	12/30/08	LBD	0.001		
Benzene	mg/kg	ND	12/30/08	LBD	0.002		
Bromobenzene	mg/kg	ND	12/30/08	LBD	0.002		
Bromochloromethane	mg/kg	ND	12/30/08	LBD	0.002		
Bromodichloromethane	mg/kg	ND	12/30/08	LBD	0.002		
Bromoform	mg/kg	ND	12/30/08	LBD	0.002		
Bromomethane	mg/kg	ND	12/30/08	LBD	0.010		
2-Butanone (MEK)	mg/kg	ND	12/30/08	LBD	0.039		
tert-Butyl Alcohol	mg/kg	ND	12/30/08	LBD	0.039		
n-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.002		
sec-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.002		
tert-Butylbenzene	mg/kg	ND	12/30/08	LBD	0.002		
tert-Butylethyl Ether	mg/kg	ND	12/30/08	LBD	0.001		
Carbon Disulfide	mg/kg	ND	12/30/08	LBD	0.006		
Carbon Tetrachloride	mg/kg	ND	12/30/08	LBD	0.002		
Chlorobenzene	mg/kg	ND	12/30/08	LBD	0.002		
Chlorodibromomethane	mg/kg	ND	12/30/08	LBD	0.001		
Chloroethane	mg/kg	ND	12/30/08	LBD	0.020		
Chloroform	mg/kg	ND	12/30/08	LBD	0.004		
Chloromethane	mg/kg	ND	12/30/08	LBD	0.010		
2-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.002		
4-Chlorotoluene	mg/kg	ND	12/30/08	LBD	0.002		
1,2-Dibromo-3-Chloropropane	mg/kg	ND	12/30/08	LBD	0.002		
1,2-Dibromoethane	mg/kg	ND	12/30/08	LBD	0.001		
Dibromomethane	mg/kg	ND	12/30/08	LBD	0.002		
1,2-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.002		
1,3-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.002		

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-33

Sample ID: 08B50796

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,4-Dichlorobenzene	mg/kg	ND	12/30/08	LBD	0.002		
trans-1,4-Dichloro-2-Butene	mg/kg	ND	12/30/08	LBD	0.004		
Dichlorodifluoromethane	mg/kg	ND	12/30/08	LBD	0.020		
1,1-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.002		
1,2-Dichloroethane	mg/kg	ND	12/30/08	LBD	0.002		
1,1-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.004		
cis-1,2-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.002		
trans-1,2-Dichloroethylene	mg/kg	ND	12/30/08	LBD	0.002		
1,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.002		
1,3-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.001		
2,2-Dichloropropane	mg/kg	ND	12/30/08	LBD	0.002		
1,1-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.002		
cis-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.001		
trans-1,3-Dichloropropene	mg/kg	ND	12/30/08	LBD	0.001		
Diethyl Ether	mg/kg	ND	12/30/08	LBD	0.020		
Diisopropyl Ether	mg/kg	ND	12/30/08	LBD	0.020		
1,4-Dioxane	mg/kg	ND	12/30/08	LBD	0.097		
Ethyl Benzene	mg/kg	ND	12/30/08	LBD	0.002		
Hexachlorobutadiene	mg/kg	ND	12/30/08	LBD	0.002		
2-Hexanone	mg/kg	ND	12/30/08	LBD	0.020		
Isopropylbenzene	mg/kg	ND	12/30/08	LBD	0.002		
p-Isopropyltoluene	mg/kg	ND	12/30/08	LBD	0.002		
MTBE	mg/kg	ND	12/30/08	LBD	0.004		
Methylene Chloride	mg/kg	ND	12/30/08	LBD	0.020		
MIBK	mg/kg	ND	12/30/08	LBD	0.020		
Naphthalene	mg/kg	ND	12/30/08	LBD	0.004		
n-Propylbenzene	mg/kg	ND	12/30/08	LBD	0.002		
Styrene	mg/kg	ND	12/30/08	LBD	0.002		
1,1,1,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.002		

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-33

Sample ID: 08B50796

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,1,2,2-Tetrachloroethane	mg/kg	ND	12/30/08	LBD	0.001		
Tetrachloroethylene	mg/kg	ND	12/30/08	LBD	0.002		
Tetrahydrofuran	mg/kg	ND	12/30/08	LBD	0.010		
Toluene	mg/kg	ND	12/30/08	LBD	0.002		
1,2,3-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.002		
1,2,4-Trichlorobenzene	mg/kg	ND	12/30/08	LBD	0.002		
1,1,1-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.002		
1,1,2-Trichloroethane	mg/kg	ND	12/30/08	LBD	0.002		
Trichloroethylene	mg/kg	ND	12/30/08	LBD	0.002		
Trichlorofluoromethane	mg/kg	ND	12/30/08	LBD	0.010		
1,2,3-Trichloropropane	mg/kg	ND	12/30/08	LBD	0.002		
1,1,2-Trichloro-1,2,2-Trifluoroethane	mg/kg	ND	12/30/08	LBD	0.010		
1,2,4-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.002		
1,3,5-Trimethylbenzene	mg/kg	ND	12/30/08	LBD	0.002		
Vinyl Chloride	mg/kg	ND	12/30/08	LBD	0.010		
m + p Xylene	mg/kg	ND	12/30/08	LBD	0.004		
o-Xylene	mg/kg	ND	12/30/08	LBD	0.002		

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR 1,4-DIOXANE AND TERT-BUTYLALCOHOL ARE ESTIMATED SINCE RESPONSE FACTORS FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-12

Sample ID: 08B50774

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	7.74	12/29/08	OP	2.94		

Field Sample #: SB-14

Sample ID: 08B50777

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	8.91	12/29/08	OP	3.02		

Field Sample #: SB-15

Sample ID: 08B50778

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	ND	12/29/08	OP	2.85		

Field Sample #: SB-17

Sample ID: 08B50780

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	5.10	12/29/08	OP	2.72		

Field Sample #: SB-18

Sample ID: 08B50781

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.29	12/29/08	OP	2.70		

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Purchase Order No.:

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-19

Sample ID : 08B50782      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.17	12/29/08	OP	2.64		

Field Sample #: SB-20

Sample ID : 08B50783      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	5.31	12/29/08	OP	2.78		

Field Sample #: SB-21

Sample ID : 08B50784      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	8.92	12/29/08	OP	2.83		

Field Sample #: SB-22

Sample ID : 08B50785      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.95	12/29/08	OP	2.65		

Field Sample #: SB-23

Sample ID : 08B50786      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	7.83	12/29/08	OP	2.93		

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

**Field Sample # : SB-24**

**Sample ID : 08B50787** ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.31	12/29/08	OP	2.82		

**Field Sample # : SB-25**

**Sample ID : 08B50788** ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.14	12/29/08	OP	2.65		

**Field Sample # : SB-26**

**Sample ID : 08B50789** ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	7.95	12/29/08	OP	2.93		

**Field Sample # : SB-27**

**Sample ID : 08B50790** ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	7.32	12/29/08	OP	2.89		

**Field Sample # : SB-28**

**Sample ID : 08B50791** ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	16.8	12/29/08	OP	2.72		

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-29

Sample ID : 08B50792      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	8.57	12/29/08	OP	2.69		

Field Sample #: SB-30

Sample ID : 08B50793      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.21	12/29/08	OP	2.76		

Field Sample #: SB-31

Sample ID : 08B50794      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.22	12/29/08	OP	2.82		

Field Sample #: SB-32

Sample ID : 08B50795      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.50	12/29/08	OP	2.99		

Field Sample #: SB-34 0-2FT

Sample ID : 08B50797      ‡Sampled : 12/23/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	7.01	12/29/08	OP	2.82		

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT  
Date Received: 12/24/2008

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LIMS-BAT #: LIMIT-22296  
Job Number: 60045450.04

Analytical Method:

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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determine PASS (P) or FAIL (F) condition of results.





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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-16

Sample ID: 08B50779

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Extractable TPH (ETPH)	mg/kg dry weight	450	12/30/08	JB	230		

Field Sample #: SB-30

Sample ID: 08B50793

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Extractable TPH (ETPH)	mg/kg dry weight	230	12/30/08	JB	120		

Field Sample #: SB-32

Sample ID: 08B50795

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Extractable TPH (ETPH)	mg/kg dry weight	850	12/30/08	JB	240		

Analytical Method:

Extractable TPH (CT ETPH)

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-16

Sample ID : 08B50779

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Antimony	mg/kg dry wt	ND	12/29/08	OP	4.46		
Arsenic	mg/kg dry wt	9.89	12/29/08	OP	2.79		
Beryllium	mg/kg dry wt	0.66	12/29/08	OP	0.28		
Cadmium	mg/kg dry wt	5.38	12/29/08	OP	0.28		
Chromium	mg/kg dry wt	233	12/29/08	OP	0.56		
Copper	mg/kg dry wt	48.0	12/29/08	OP	0.56		
Lead	mg/kg dry wt	94.2	12/29/08	OP	0.84		
Mercury	mg/kg dry wt	0.070	12/29/08	KM	0.012		
Nickel	mg/kg dry wt	64.3	12/29/08	OP	0.56		
Selenium	mg/kg dry wt	ND	12/29/08	OP	5.58		
Silver	mg/kg dry wt	ND	12/29/08	OP	0.56		
Thallium	mg/kg dry wt	ND	12/29/08	OP	3.35		
Zinc	mg/kg dry wt	126	12/29/08	OP	1.12		

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DANIEL SEREMET  
METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT  
Date Received: 12/24/2008

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LIMS-BAT #: LIMIT-22296

Job Number: 60045450.04

Analytical Method: Antimony

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Arsenic

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Beryllium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Cadmium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Chromium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Copper

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Lead

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Mercury

SW846 3050/7471

SAMPLES ARE DIGESTED WITH ACIDS AND THEN ANALYZED BY  
COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY

Analytical Method: Nickel

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Selenium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT  
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LIMS-BAT #: LIMIT-22296

Job Number: 60045450.04

Analytical Method: Silver

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Thallium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Zinc

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-30

Sample ID : 08B50793

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	71.1	12/29/08	OP	0.83		

Field Sample #: SB-32

Sample ID : 08B50795

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	887	12/29/08	OP	0.90		

Analytical Method:

SW846 3050/6010

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INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

**Field Sample # : SB-12**

**Sample ID : 08B50774**

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.1	12/29/08	TGT			

**Field Sample # : SB-14**

**Sample ID : 08B50777**

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	82.8	12/29/08	TGT			

**Field Sample # : SB-15**

**Sample ID : 08B50778**

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	88.0	12/29/08	TGT			

**Field Sample # : SB-16**

**Sample ID : 08B50779**

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	89.7	12/29/08	TGT			

**Field Sample # : SB-17**

**Sample ID : 08B50780**

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	92.1	12/29/08	TGT			

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-18

Sample ID : 08B50781

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	92.6	12/29/08	TGT			

Field Sample #: SB-19

Sample ID : 08B50782

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	94.9	12/29/08	TGT			

Field Sample #: SB-20

Sample ID : 08B50783

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	90.0	12/29/08	TGT			

Field Sample #: SB-21

Sample ID : 08B50784

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	88.6	12/29/08	TGT			

Field Sample #: SB-22

Sample ID : 08B50785

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	94.6	12/29/08	TGT			

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

**Field Sample # : SB-23**

**Sample ID : 08B50786** ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.6	12/29/08	TGT			

**Field Sample # : SB-24**

**Sample ID : 08B50787** ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	88.8	12/29/08	TGT			

**Field Sample # : SB-25**

**Sample ID : 08B50788** ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	94.4	12/29/08	TGT			

**Field Sample # : SB-26**

**Sample ID : 08B50789** ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.4	12/29/08	TGT			

**Field Sample # : SB-27**

**Sample ID : 08B50790** ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	86.8	12/29/08	TGT			

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

**Field Sample # : SB-28**

**Sample ID : 08B50791**

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	92.2	12/29/08	TGT			

**Field Sample # : SB-29**

**Sample ID : 08B50792**

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	93.1	12/29/08	TGT			

**Field Sample # : SB-30**

**Sample ID : 08B50793**

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	90.9	12/29/08	TGT			

**Field Sample # : SB-31**

**Sample ID : 08B50794**

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	88.9	12/29/08	TGT			

**Field Sample # : SB-32**

**Sample ID : 08B50795**

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	83.7	12/29/08	TGT			

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WALLINGFORD, CT 06492

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22296

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-34 0-2FT

Sample ID : 08B50797

‡Sampled : 12/23/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	88.9	12/29/08	TGT			

Analytical Method:

SM 2540G

PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT  
Date Received: 12/24/2008

The following notes were attached to the reported analysis :

1/2/2009

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LIMS-BAT #: LIMIT-22296

Job Number: 60045450.04

Sample ID: \* 08B50778

Analysis: PCB-1254

RESULT WAS CONFIRMED USING A DISSIMILAR COLUMN. RELATIVE PERCENT  
DIFFERENCE BETWEEN THE TWO RESULTS WAS >40%. THE HIGHER RESULT WAS  
REPORTED.

\*\* END OF REPORT \*\*

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### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/2/2009

Lims Bat # : LIMIT-22296

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QC Batch Number: GC/ECD-12053

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50777	PCB-1260	Sample Amount	<0.121	mg/kg dry wt	
		Matrix Spk Amt Added	0.241	mg/kg dry wt	
		MS Amt Measured	0.247	mg/kg dry wt	
		Matrix Spike % Rec.	102.500	%	40-140
		MSD Amount Added	0.241	mg/kg dry wt	
		MSD Amt Measured	0.254	mg/kg dry wt	
		MSD % Recovery	105.250	%	
		MSD Range	2.750	units	
		MS Duplicate RPD	2.647	%	0-50
	Decachlorobiphenyl	Surrogate Recovery	108.5	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	129.7	%	30-150
	PCB 1016	Sample Amount	<0.121	mg/kg dry wt	
		Matrix Spk Amt Added	0.241	mg/kg dry wt	
		MS Amt Measured	0.210	mg/kg dry wt	
		Matrix Spike % Rec.	87.249	%	40-140
		MSD Amount Added	0.241	mg/kg dry wt	
		MSD Amt Measured	0.185	mg/kg dry wt	
		MSD % Recovery	76.999	%	
		MSD Range	10.249	units	
		MS Duplicate RPD	12.480	%	0-50
08B50778	Decachlorobiphenyl	Surrogate Recovery	55.5	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	89.5	%	30-150
BLANK-128145	PCB-1232	Blank	<0.100	mg/kg dry wt	
	PCB-1242	Blank	<0.100	mg/kg dry wt	
	PCB-1254	Blank	<0.100	mg/kg dry wt	
	PCB-1260	Blank	<0.100	mg/kg dry wt	
	PCB-1248	Blank	<0.100	mg/kg dry wt	
	PCB-1221	Blank	<0.100	mg/kg dry wt	
	PCB 1016	Blank	<0.100	mg/kg dry wt	
	PCB 1262	Blank	<0.100	mg/kg dry wt	
	PCB 1268	Blank	<0.100	mg/kg dry wt	
LFBLANK-90162	PCB-1260	Lab Fort Blank Amt.	0.200	mg/kg dry wt	
		Lab Fort Blk. Found	0.209	mg/kg dry wt	
		Lab Fort Blk. % Rec.	104.750	%	40-140
		Dup Lab Fort Bl Amt.	0.200	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.171	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	85.500	%	
		Lab Fort Blank Range	19.250	units	
		Lab Fort Bl. Av. Rec	95.125	%	
		LFB Duplicate RPD	20.236	%	0-30



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### QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/2/2009

Lims Bat # : LIMIT-22296

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QC Batch Number: GC/ECD-12053

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90162	PCB 1016	Lab Fort Blank Amt.	0.200	mg/kg dry wt	
		Lab Fort Blk. Found	0.184	mg/kg dry wt	
		Lab Fort Blk. % Rec.	92.250	%	40-140
		Dup Lab Fort Bl Amt.	0.200	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.198	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	99.250	%	
		Lab Fort Blank Range	7.000	units	
		Lab Fort Bl. Av. Rec	95.750	%	
		LFB Duplicate RPD	7.310	%	0-30

### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/2/2009

Lims Bat # : LIMIT-22296

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QC Batch Number: GC/FID-22891

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50779	Terphenyl	Surrogate Recovery	N.M.	%	50-150
08B50793	Terphenyl	Surrogate Recovery	74.2	%	50-150
08B50795	Terphenyl	Surrogate Recovery	N.M.	%	50-150
BLANK-128204	Extractable TPH (ETPH)	Blank	<10.0	mg/kg dry weig	
LFBLANK-90226	Extractable TPH (ETPH)	Lab Fort Blank Amt.	33.3	mg/kg dry weig	
		Lab Fort Blk. Found	23.0	mg/kg dry weig	
		Lab Fort Blk. % Rec.	69.1	%	60-120
		Dup Lab Fort Bl Amt.	33.3	mg/kg dry weig	
		Dup Lab Fort Bl. Fnd	21.7	mg/kg dry weig	
		Dup Lab Fort Bl %Rec	65.2	%	
		Lab Fort Blank Range	3.9	units	
		Lab Fort Bl. Av. Rec	67.1	%	
		LFB Duplicate RPD	5.8	%	

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/2/2009

Lims Bat # : LIMIT-22296

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QC Batch Number: GCMS/VOL-21247

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50775	1,2-Dichloroethane-d4	Surrogate Recovery	119.600	%	70-130
	Toluene-d8	Surrogate Recovery	99.840	%	70-130
	Bromofluorobenzene	Surrogate Recovery	103.160	%	70-130
08B50776	1,2-Dichloroethane-d4	Surrogate Recovery	119.320	%	70-130
	Toluene-d8	Surrogate Recovery	99.280	%	70-130
	Bromofluorobenzene	Surrogate Recovery	103.400	%	70-130
08B50796	1,2-Dichloroethane-d4	Surrogate Recovery	119.600	%	70-130
	Toluene-d8	Surrogate Recovery	99.960	%	70-130
	Bromofluorobenzene	Surrogate Recovery	103.720	%	70-130
BLANK-128197	Acetone	Blank	<0.10	mg/kg	
	Benzene	Blank	<0.002	mg/kg	
	Carbon Tetrachloride	Blank	<0.002	mg/kg	
	Chloroform	Blank	<0.004	mg/kg	
	1,2-Dichloroethane	Blank	<0.002	mg/kg	
	1,4-Dichlorobenzene	Blank	<0.002	mg/kg	
	Ethyl Benzene	Blank	<0.002	mg/kg	
	2-Butanone (MEK)	Blank	<0.040	mg/kg	
	MIBK	Blank	<0.020	mg/kg	
	Naphthalene	Blank	<0.004	mg/kg	
	Styrene	Blank	<0.002	mg/kg	
	Tetrachloroethylene	Blank	<0.002	mg/kg	
	Toluene	Blank	<0.002	mg/kg	
	1,1,1-Trichloroethane	Blank	<0.002	mg/kg	
	Trichloroethylene	Blank	<0.002	mg/kg	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.010	mg/kg	
	Trichlorofluoromethane	Blank	<0.010	mg/kg	
	o-Xylene	Blank	<0.002	mg/kg	
	m + p Xylene	Blank	<0.004	mg/kg	
	1,2-Dichlorobenzene	Blank	<0.002	mg/kg	
	1,3-Dichlorobenzene	Blank	<0.002	mg/kg	
	1,1-Dichloroethane	Blank	<0.002	mg/kg	
	1,1-Dichloroethylene	Blank	<0.004	mg/kg	
	1,4-Dioxane	Blank	<0.10	mg/kg	
	MTBE	Blank	<0.004	mg/kg	
	trans-1,2-Dichloroethylene	Blank	<0.002	mg/kg	
	Vinyl Chloride	Blank	<0.010	mg/kg	
	Methylene Chloride	Blank	<0.020	mg/kg	
	Chlorobenzene	Blank	<0.002	mg/kg	
	Chloromethane	Blank	<0.010	mg/kg	
	Bromomethane	Blank	<0.010	mg/kg	

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

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Method Blanks

Report Date: 1/2/2009

Lims Bat # : LIMIT-22296

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QC Batch Number: GCMS/VOL-21247

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128197					
	Chloroethane	Blank	<0.020	mg/kg	
	cis-1,3-Dichloropropene	Blank	<0.001	mg/kg	
	trans-1,3-Dichloropropene	Blank	<0.001	mg/kg	
	Chlorodibromomethane	Blank	<0.001	mg/kg	
	1,1,2-Trichloroethane	Blank	<0.002	mg/kg	
	Bromoform	Blank	<0.002	mg/kg	
	1,1,2,2-Tetrachloroethane	Blank	<0.001	mg/kg	
	2-Chlorotoluene	Blank	<0.002	mg/kg	
	Hexachlorobutadiene	Blank	<0.002	mg/kg	
	Isopropylbenzene	Blank	<0.002	mg/kg	
	p-Isopropyltoluene	Blank	<0.002	mg/kg	
	n-Propylbenzene	Blank	<0.002	mg/kg	
	sec-Butylbenzene	Blank	<0.002	mg/kg	
	tert-Butylbenzene	Blank	<0.002	mg/kg	
	1,2,3-Trichlorobenzene	Blank	<0.002	mg/kg	
	1,2,4-Trichlorobenzene	Blank	<0.002	mg/kg	
	1,2,4-Trimethylbenzene	Blank	<0.002	mg/kg	
	1,3,5-Trimethylbenzene	Blank	<0.002	mg/kg	
	Dibromomethane	Blank	<0.002	mg/kg	
	cis-1,2-Dichloroethylene	Blank	<0.002	mg/kg	
	4-Chlorotoluene	Blank	<0.002	mg/kg	
	1,1-Dichloropropene	Blank	<0.002	mg/kg	
	1,2-Dichloropropane	Blank	<0.002	mg/kg	
	1,3-Dichloropropane	Blank	<0.001	mg/kg	
	2,2-Dichloropropane	Blank	<0.002	mg/kg	
	1,1,1,2-Tetrachloroethane	Blank	<0.002	mg/kg	
	1,2,3-Trichloropropane	Blank	<0.002	mg/kg	
	n-Butylbenzene	Blank	<0.002	mg/kg	
	Dichlorodifluoromethane	Blank	<0.020	mg/kg	
	Bromochloromethane	Blank	<0.002	mg/kg	
	Bromobenzene	Blank	<0.002	mg/kg	
	Acrylonitrile	Blank	<0.006	mg/kg	
	Carbon Disulfide	Blank	<0.006	mg/kg	
	2-Hexanone	Blank	<0.020	mg/kg	
	trans-1,4-Dichloro-2-Butene	Blank	<0.004	mg/kg	
	Diethyl Ether	Blank	<0.020	mg/kg	
	Bromodichloromethane	Blank	<0.002	mg/kg	
	1,2-Dibromo-3-Chloropropane	Blank	<0.002	mg/kg	
	1,2-Dibromoethane	Blank	<0.001	mg/kg	
	Tetrahydrofuran	Blank	<0.010	mg/kg	
	tert-Butyl Alcohol	Blank	<0.040	mg/kg	
	Diisopropyl Ether	Blank	<0.020	mg/kg	
	tert-Butylethyl Ether	Blank	<0.001	mg/kg	



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Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128197	tert-Amylmethyl Ether	Blank	<0.001	mg/kg	
LFBLANK-90219	Acetone	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.164	mg/kg	
		Lab Fort Blk. % Rec.	82.420	%	70-160
	Benzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	79.300	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	77.300	%	70-130
	Chloroform	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	76.000	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	84.700	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	78.100	%	70-130
	Ethyl Benzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	84.300	%	70-130
	2-Butanone (MEK)	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.153	mg/kg	
		Lab Fort Blk. % Rec.	76.640	%	70-160
	MIBK	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.160	mg/kg	
		Lab Fort Blk. % Rec.	80.300	%	70-160
	Naphthalene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.800	%	40-130
	Styrene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.700	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	84.400	%	70-160
	Toluene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	78.900	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	

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LFBLANK-90219					
	1,1,1-Trichloroethane	Lab Fort Blk. % Rec.	82.000	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blk. % Rec.	81.400	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
	Trichlorofluoromethane	Lab Fort Blk. % Rec.	86.500	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
	o-Xylene	Lab Fort Blk. % Rec.	84.700	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
	m + p Xylene	Lab Fort Blk. % Rec.	80.500	%	70-130
		Lab Fort Blank Amt.	0.040	mg/kg	
		Lab Fort Blk. Found	0.033	mg/kg	
	1,2-Dichlorobenzene	Lab Fort Blk. % Rec.	83.700	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
	1,3-Dichlorobenzene	Lab Fort Blk. % Rec.	81.300	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
	1,1-Dichloroethane	Lab Fort Blk. % Rec.	81.100	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
	1,1-Dichloroethylene	Lab Fort Blk. % Rec.	76.200	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
	1,4-Dioxane	Lab Fort Blk. % Rec.	75.200	%	70-130
		Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.127	mg/kg	
	MTBE	Lab Fort Blk. % Rec.	63.620	%	40-160
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
	trans-1,2-Dichloroethylene	Lab Fort Blk. % Rec.	82.500	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
	Vinyl Chloride	Lab Fort Blk. % Rec.	79.600	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.013	mg/kg	
	Methylene Chloride	Lab Fort Blk. % Rec.	68.900	%	40-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	86.700	%	40-160

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90219					
Chlorobenzene		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.100	%	
Chloromethane		Lab Fort Blank Amt.	0.020	mg/kg	40-130
		Lab Fort Blk. Found	0.013	mg/kg	
		Lab Fort Blk. % Rec.	65.000	%	
Bromomethane		Lab Fort Blank Amt.	0.020	mg/kg	40-130
		Lab Fort Blk. Found	0.012	mg/kg	
		Lab Fort Blk. % Rec.	63.300	%	
Chloroethane		Lab Fort Blank Amt.	0.020	mg/kg	40-160
		Lab Fort Blk. Found	0.014	mg/kg	
		Lab Fort Blk. % Rec.	70.800	%	
cis-1,3-Dichloropropene		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.014	mg/kg	
		Lab Fort Blk. % Rec.	73.600	%	
trans-1,3-Dichloropropene		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	76.200	%	
Chlorodibromomethane		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	77.400	%	
1,1,2-Trichloroethane		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	75.700	%	
Bromoform		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	86.800	%	
1,1,2,2-Tetrachloroethane		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	81.400	%	
2-Chlorotoluene		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	84.300	%	
Hexachlorobutadiene		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	85.800	%	
Isopropylbenzene		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.018	mg/kg	
		Lab Fort Blk. % Rec.	94.500	%	
p-Isopropyltoluene		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	86.600	%	
n-Propylbenzene		Lab Fort Blank Amt.	0.020	mg/kg	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90219					
n-Propylbenzene		Lab Fort Blk. Found	0.017	mg/kg	70-130
		Lab Fort Blk. % Rec.	85.800	%	
sec-Butylbenzene		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.017	mg/kg	
tert-Butylbenzene		Lab Fort Blk. % Rec.	85.000	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
1,2,3-Trichlorobenzene		Lab Fort Blk. Found	0.016	mg/kg	70-160
		Lab Fort Blk. % Rec.	82.700	%	
1,2,4-Trichlorobenzene		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.016	mg/kg	
1,2,4-Trimethylbenzene		Lab Fort Blk. % Rec.	82.200	%	40-130
		Lab Fort Blank Amt.	0.020	mg/kg	
1,3,5-Trimethylbenzene		Lab Fort Blk. Found	0.015	mg/kg	70-130
		Lab Fort Blk. % Rec.	79.600	%	
Dibromomethane		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.016	mg/kg	
cis-1,2-Dichloroethylene		Lab Fort Blk. % Rec.	88.000	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
4-Chlorotoluene		Lab Fort Blk. Found	0.015	mg/kg	70-130
		Lab Fort Blk. % Rec.	78.300	%	
1,1-Dichloropropene		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.017	mg/kg	
1,2-Dichloropropane		Lab Fort Blk. % Rec.	86.000	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
1,3-Dichloropropane		Lab Fort Blk. Found	0.016	mg/kg	70-130
		Lab Fort Blk. % Rec.	81.800	%	
2,2-Dichloropropane		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.014	mg/kg	
1,1,1,2-Tetrachloroethane		Lab Fort Blk. % Rec.	74.500	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	70-130
		Lab Fort Blk. % Rec.	77.200	%	
		Lab Fort Blank Amt.	0.020	mg/kg	70-130
		Lab Fort Blk. Found	0.013	mg/kg	
		Lab Fort Blk. % Rec.	69.100	%	70-130
		Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	0.015	mg/kg	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90219					
	1,1,1,2-Tetrachloroethane	Lab Fort Blk. % Rec.	75.800	%	70-130
	1,2,3-Trichloropropane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.013	mg/kg	
		Lab Fort Blk. % Rec.	66.600	%	40-130
	n-Butylbenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	85.400	%	70-160
	Dichlorodifluoromethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	76.600	%	40-160
	Bromochloromethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.017	mg/kg	
		Lab Fort Blk. % Rec.	87.500	%	70-130
	Bromobenzene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	83.100	%	70-130
	Acrylonitrile	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.014	mg/kg	
		Lab Fort Blk. % Rec.	74.500	%	70-160
	Carbon Disulfide	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	81.200	%	70-160
	2-Hexanone	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.157	mg/kg	
		Lab Fort Blk. % Rec.	78.750	%	70-160
	trans-1,4-Dichloro-2-Butene	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.012	mg/kg	
		Lab Fort Blk. % Rec.	64.900	%	70-130
	Diethyl Ether	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	75.200	%	70-130
	Bromodichloromethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	75.700	%	70-130
	1,2-Dibromo-3-Chloropropane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.014	mg/kg	
		Lab Fort Blk. % Rec.	73.300	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	80.800	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.016	mg/kg	
		Lab Fort Blk. % Rec.	82.200	%	70-130

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90219	tert-Butyl Alcohol	Lab Fort Blank Amt.	0.200	mg/kg	
		Lab Fort Blk. Found	0.113	mg/kg	
		Lab Fort Blk. % Rec.	56.770	%	40-130
	Diisopropyl Ether	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	78.900	%	70-130
	tert-Butylethyl Ether	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	76.300	%	70-130
	tert-Amylmethyl Ether	Lab Fort Blank Amt.	0.020	mg/kg	
		Lab Fort Blk. Found	0.015	mg/kg	
		Lab Fort Blk. % Rec.	76.800	%	70-130



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QC Batch Number: HG-9750

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50779	Mercury	Sample Amount	0.070	mg/kg dry wt	0-35
		Duplicate Value	0.056	mg/kg dry wt	
		Duplicate RPD	21.237	%	
		Sample Amount	0.070	mg/kg dry wt	75-125
		Matrix Spk Amt Added	0.234	mg/kg dry wt	
		MS Amt Measured	0.320	mg/kg dry wt	
		Matrix Spike % Rec.	106.387	%	
BLANK-128090	Mercury	Blank	<0.025	mg/kg dry wt	
LFBLANK-90101					
	Mercury	Lab Fort Blank Amt.	1.250	mg/kg dry wt	65.9-133
		Lab Fort Blk. Found	1.202	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.167	%	

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QC Batch Number: ICP-20896

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50788	Arsenic	Sample Amount	6.14	mg/kg dry wt	
		Duplicate Value	6.37	mg/kg dry wt	
		Duplicate RPD	3.78	%	0-35
		Sample Amount	6.14	mg/kg dry wt	
		Matrix Spk Amt Added	26.48	mg/kg dry wt	
		MS Amt Measured	31.72	mg/kg dry wt	
		Matrix Spike % Rec.	96.61	%	75-125
BLANK-128136	Silver	Blank	<0.50	mg/kg dry wt	
	Arsenic	Blank	<2.50	mg/kg dry wt	
	Beryllium	Blank	<0.25	mg/kg dry wt	
	Cadmium	Blank	<0.25	mg/kg dry wt	
	Chromium	Blank	<0.50	mg/kg dry wt	
	Copper	Blank	<0.50	mg/kg dry wt	
	Nickel	Blank	<0.50	mg/kg dry wt	
	Lead	Blank	<0.75	mg/kg dry wt	
	Antimony	Blank	<4.00	mg/kg dry wt	
	Selenium	Blank	<5.00	mg/kg dry wt	
	Thallium	Blank	<3.00	mg/kg dry wt	
	Zinc	Blank	<1.00	mg/kg dry wt	
LFBLANK-90153	Silver	Lab Fort Blank Amt.	81.20	mg/kg dry wt	
		Lab Fort Blk. Found	72.45	mg/kg dry wt	
		Lab Fort Blk. % Rec.	89.23	%	66-133
	Arsenic	Lab Fort Blank Amt.	133.00	mg/kg dry wt	
		Lab Fort Blk. Found	129.91	mg/kg dry wt	
		Lab Fort Blk. % Rec.	97.68	%	80-120
	Beryllium	Lab Fort Blank Amt.	117.00	mg/kg dry wt	
		Lab Fort Blk. Found	117.59	mg/kg dry wt	
		Lab Fort Blk. % Rec.	100.50	%	84-116
	Cadmium	Lab Fort Blank Amt.	103.00	mg/kg dry wt	
		Lab Fort Blk. Found	99.74	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.83	%	83-117
	Chromium	Lab Fort Blank Amt.	219.00	mg/kg dry wt	
		Lab Fort Blk. Found	218.62	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.82	%	82-118
	Copper	Lab Fort Blank Amt.	155.00	mg/kg dry wt	
		Lab Fort Blk. Found	153.82	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.23	%	83-117
	Nickel	Lab Fort Blank Amt.	119.00	mg/kg dry wt	
		Lab Fort Blk. Found	112.78	mg/kg dry wt	
		Lab Fort Blk. % Rec.	94.77	%	80-120
	Lead	Lab Fort Blank Amt.	168.00	mg/kg dry wt	



### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/2/2009

Lims Bat # : LIMIT-22296

Page 14 of 16

QC Batch Number: ICP-20896

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90153	Lead	Lab Fort Blk. Found	155.52	mg/kg dry wt	82-118
		Lab Fort Blk. % Rec.	92.57	%	
	Antimony	Lab Fort Blank Amt.	79.20	mg/kg dry wt	30-207
		Lab Fort Blk. Found	96.09	mg/kg dry wt	
	Selenium	Lab Fort Blk. % Rec.	121.32	%	77-123
		Lab Fort Blank Amt.	94.10	mg/kg dry wt	
	Thallium	Lab Fort Blk. Found	96.24	mg/kg dry wt	82-120
		Lab Fort Blk. % Rec.	102.27	%	
	Zinc	Lab Fort Blank Amt.	152.00	mg/kg dry wt	81-119
		Lab Fort Blk. Found	144.86	mg/kg dry wt	
		Lab Fort Blk. % Rec.	95.30	%	
		Lab Fort Blank Amt.	280.00	mg/kg dry wt	
		Lab Fort Blk. Found	264.14	mg/kg dry wt	
		Lab Fort Blk. % Rec.	94.33	%	

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/2/2009

Lims Bat # : LIMIT-22296

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## NOTES:

QC Batch No. : GC/FID-22891

Sample ID : 08B50779

Analysis : Terphenyl

SURROGATE CONCENTRATION BELOW DETECTION LIMIT DUE TO DILUTION REQUIRED  
FOR SAMPLE ANALYSIS.

QC Batch No. : GC/FID-22891

Sample ID : 08B50795

Analysis : Terphenyl

SURROGATE CONCENTRATION BELOW DETECTION LIMIT DUE TO DILUTION REQUIRED  
FOR SAMPLE ANALYSIS.

QC Batch No. : GCMS/VOL-21247

Sample ID : LFBLANK-90219

Analysis : 2,2-Dichloropropane

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED  
RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC Batch No. : GCMS/VOL-21247

Sample ID : LFBLANK-90219

Analysis : trans-1,4-Dichloro-2-Butene

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED  
RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

# QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/2/2009

Lims Bat #: LIMIT-22296

Page 16 of 16

## QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



## REASONABLE CONFIDENCE PROTOCOL

### LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: METCALF & EDDY

Project Location: 80 HASTINGS ST.  
BRIDGEPORT

Project Number: LINT-22296

Laboratory Sample ID(s): 08B50774-08B50797

Sampling Date(s): 12/22/08 - 12/23/08

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8032, 8260, 6010, ETPH, 7471,

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>VPH and EPH Methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (<6° C°)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Edward Denson Position: Technical Director

Printed Name: Edward Denson

Date: 1/2/09

Name of Laboratory: CON-TEST ANALYTICAL LABORATORY

This certification form is to be used for RCP methods only.





## CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR  
EAST LONGMEADOW, MA 01028

Page 2 of 5

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.comCompany Name: WILLIAMSBURG SPARK 145074

Address:

860 N Main St Rt 4Willingford CT 06492

Attention:

Daniel Serret

Project Location:

BAIOBLOFT CTSampled By: SERRET

Proposal Provided? (For Billing purposes)

☐ yes

proposal date

State Form Required?

☐ yes☐ no

Client PO #

Telephone: 203 741-2839  
Project # 60045450.04

DATA DELIVERY (check one):

☒ FAX☐ EMAIL☒ WEBSITE CLIENT

Fax #:

Email: daniel.serret@williamsburg.com

Format:

☒ EXCEL☒ PDF☐ GIS KEY☐ OTHER

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	Matrix   Code   Conc.	Analysis Requested	# of containers
SB-19		50782	12/22/08		X		5	Arsenic	1
SB-20		50783	12/22/08		X		5	VOCs	1
SB-21		50784	12/22/08		X		5	PCBs	
SB-22		50785	12/22/08		X		5	PP1?	
SB-23		50786	12/22/08		X		5	ETPH	
SB-24		50787	12/22/08		X		5		
SB-25		50788	12/22/08		X		5		
SB-26		50789	12/22/08		X		5		

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround \*\*

☒ 5-7 Days☐ 10-Day☐ Other

RUSH \*

☐ \*24-Hr☐ \*48-Hr☐ \*72-Hr☐ \*4-Day

Require lab approval

Detection Limit Requirements

Regulations? CT REGS

Lower of DOE &amp; GADMC

Data Enhancement Project/RO? NOSpecial Requirements or DLs: Rel Required

Matrix Code:

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

O = other

Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

Matrix/Conc. Code Box:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

Client Comments:

-Cont. Code:

A = amber glass

G = glass

P = plastic

ST = sterile

V = val

S = summa can

T = redial bag

O = Other

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP &amp; WBE/DBE Certified





Email: [info@contestlabs.com](mailto:info@contestlabs.com)

Adm

Project # 60045450, 004

Attention: Flora Sexton

Sampled By: S. E. R. in ET

	<input type="checkbox"/> yes	<input type="checkbox"/> no	proposal date
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☐ yes ☐ no

☐ FAX    ☐ EMAIL    ☒ WEBSITE CLIENT

Email: dans@ethernet.net

Format: ☒ EXCEL ☒ PDF ☐ GIS KEY

OTHER

Date Sampled

Arsenic  
PCB

ANALYSIS REQUESTED

39 SPRUCE ST, 2ND FLOOR  
EAST LONGMEADOW, MA 01028

Page of

# of containers	** Preservation
1	1
2	2
3	3
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99	99
100	100

~Cont. Code

**Cont. Code:**

Glass

ST=sterile

**S**==Summa can

**O=Other**

**Client**

**Comments:**

**Comments:**

Please use the following codes to let Cor-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

## Turnaround \*\*

### Detection Limit Requirements

**\*Matrix Code:**

**\*\* Preservation Codes:**

10-Day

Lower of PDEC, GA Inc

WW = wastewater

H = HCl      T = Na thiosulfate

**RUSH** \*

9

Asiatic

N = Nitric Acid

□ \*72-Hr □ \*4-Day

KKK

SL = sludge

**B** = Sodium bisulfate

RECEIPT UNLESS THERE

ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

ΔΙΗΔ ΜΕΙ ΔΓ 2 Μ/ΒΕ/ΠΒΕ 2004:2004





www.contestlabs.com



39 Spruce St.  
East Longmeadow, MA.  
01028  
P: 413-525-2332  
F: 413-525-6405

### Sample Receipt Checklist

CLIENT NAME: Metcalf / AECOM RECEIVED BY: CEC DATE: 12/24/08

1) Was the chain(s) of custody relinquished and signed? Yes No

2) Does the chain agree with the samples? Yes No  
If not, explain:

3) Are all the samples in good condition? Yes No  
If not, explain:

4) How were the samples received:  
On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No

Temperature °C by Temp blank 3.0° Temperature °C by Temp gun \_\_\_\_\_

5) Are there Dissolved samples for the lab to filter? Yes No  
Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any samples "On Hold"? Yes No Stored where: \_\_\_\_\_

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No  
Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

8) Location where samples are stored: 19

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved  
Client Signature: \_\_\_\_\_

### Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber	<u>4</u>	8 oz clear jar	
500 mL Amber		4 oz clear jar	<u>2</u>
250 mL Amber (8oz amber)	<u>39</u>	2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic	<u>1</u>	Air Cassette	
40 mL Vial - type listed below	<u>11</u>	Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other	

Laboratory Comments:

10 mL vials: # HCl 2 # Methanol 3  
# Bisulfate 6 # DI Water \_\_\_\_\_ Time and Date Frozen: \_\_\_\_\_  
# Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Do all samples have the proper pH: Yes No N/A



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/5/2009

METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492  
ATTN: DANIEL SEREMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22297  
JOB NUMBER: 60045450.04

PROJECT LOCATION: 80 HASTINGS ST, BRIDGEPORT, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
EB	08B50805	WATER OTHE	Not Specified	6020 pp 12 water	
EB	08B50805	WATER OTHE	Not Specified	8082 water	
EB	08B50805	WATER OTHE	Not Specified	8260 water	
EB	08B50805	WATER OTHE	Not Specified	etph water	
EB	08B50805	WATER OTHE	Not Specified	hg (mg/l) wet	
PCB WIPE 1	08B50803	WIPE - OTHER	Not Specified	pcb wipe 8082	
PCB WIPE 1 DUP	08B50804	WIPE - OTHER	Not Specified	pcb wipe 8082	
SB-12 DUP	08B50807	SOIL	Not Specified	as (mg/kg)dw icp	
SB-12 DUP	08B50807	SOIL	Not Specified	solids (percent)	
SB-14 DUP	08B50808	SOIL	Not Specified	8082 drywt	
SB-14 DUP	08B50808	SOIL	Not Specified	solids (percent)	
SB-16 DUP	08B50809	SOIL	Not Specified	metals(13pp)sicp	
SB-16 DUP	08B50809	SOIL	Not Specified	solids (percent)	
SB-29 DUP	08B50810	SOIL	Not Specified	as (mg/kg)dw icp	
SB-29 DUP	08B50810	SOIL	Not Specified	solids (percent)	
SB-30 DUP	08B50806	SOIL	Not Specified	pb (mg/kg)dw icp	
SB-30 DUP	08B50806	SOIL	Not Specified	solids (percent)	
SB-32 DUP	08B50811	SOIL	Not Specified	etph dry weight	
SB-32 DUP	08B50811	SOIL	Not Specified	solids (percent)	
SB-34 2-4	08B50798	SOIL	Not Specified	as (mg/kg)dw icp	
SB-34 2-4	08B50798	SOIL	Not Specified	solids (percent)	
SB-35 0-2	08B50799	SOIL	Not Specified	as (mg/kg)dw icp	
SB-35 0-2	08B50799	SOIL	Not Specified	solids (percent)	
SB-35 4-5	08B50800	SOIL	Not Specified	as (mg/kg)dw icp	
SB-35 4-5	08B50800	SOIL	Not Specified	solids (percent)	
SB-36 0-2	08B50801	SOIL	Not Specified	as (mg/kg)dw icp	
SB-36 0-2	08B50801	SOIL	Not Specified	solids (percent)	
SB-36 2-4	08B50802	SOIL	Not Specified	as (mg/kg)dw icp	
SB-36 2-4	08B50802	SOIL	Not Specified	solids (percent)	



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/5/2009

METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492  
ATTN: DANIEL SEREMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22297  
JOB NUMBER: 60045450.04

Comments :

LIMS BATCH NO. : LIMIT-22297

#### CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples unless listed below:  
None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4°C +/- 2 degrees as specified on the chain-of-custody form unless listed below:  
All properly preserved

In method 6010, the low level calibration check is outside control limits for Zinc. Reported results for this element at or near the reporting limit may be bias on the high side.

In method 8260 low level water, initial and/or continuing calibration did not meet method specifications. For sample 08B50805, tert-Butyl Alcohol, 1,4-Dioxane, and 1,2-Dibromo-3-chloropropane were calibrated with a relative response factor <0.05.

There are no other analytical issues which affect the usability of the data.

#### DETAILED CASE NARRATIVE

##### METHOD SW846-7470A/7471A - ADDITIONAL COMMENTS

A sample duplicate and matrix spike were performed on WATER OTHER sample 08B50805. Sample duplicate not reported due to non-detect sample and duplicate results.

##### METHOD SW846-6020 - ADDITIONAL COMMENTS

Sample duplicate and matrix spike performed on sample 08B50805. Sample duplicates not reported for all elements due to non detect sample and duplicate results.

The LFB and matrix spike recoveries for Zn were outside of control limits. Data validation is not affected since the samples are non detect and the recovery bias is on the high side.

Only Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Se, Ag, Tl and Zn were requested and reported.

##### METHOD SW846 8082 - ADDITIONAL COMMENTS

If dilutions were performed, only one dilution within the linear calibrated region of the curve is reported. All 8082 samples were analyzed undiluted unless specified below:  
No dilutions were performed

##### METHOD SW846-6010 - ADDITIONAL COMMENTS

Only PP13 metals were requested and reported for sample 08B50809.

Only As was requested and reported for samples 08B50798 through 08B50802, 08B50807, and 08B50810. Only Pb was requested and reported for sample 08B50806.



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/5/2009

METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492  
ATTN: DANIEL SEREMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMS-22297  
JOB NUMBER: 60045450.04

Sample duplicate and matrix spike performed on SOIL sample 08B50801.  
Duplicate RPD is outside of control limits for Arsenic. Sample results are <5x the reporting limit,  
so the limits are not applicable.

#### METHOD SW846 8082 - ADDITIONAL COMMENTS

If dilutions were performed, only one dilution within the linear calibrated region of the curve is reported.  
All 8082 samples were analyzed undiluted unless specified below: No dilutions were performed

#### CT ETPH METHOD - ADDITIONAL COMMENTS Water and Soil

In method CT ETPH samples 08B50811(x20) was diluted because undiluted results were over the  
verified linear calibration range.

In method CT ETPH for samples 08B50811, the surrogate concentration is below detection limit  
due to dilution required for sample analysis and could not be reported.

#### METHOD SW846 8260 LOW LEVEL WATER - ADDITIONAL COMMENTS

The LCS recoveries for required CT reasonable confidence protocol (RCP) 8260 compounds were all  
within limits specified by the method except for "difficult analytes" where control limits somewhere  
between 40-160% are used and/or unless otherwise listed in this narrative.  
Difficult analytes: MIBK, MEK, Tetrachloroethylene, Tert-butyl Alcohol, Acetone,  
1,4-Dioxane, Vinyl Chloride, Chloromethane, Bromomethane, Naphthalene, 2,2-Dichloropropane,  
Dichlorodifluoromethane, 2-Hexanone, and Tert-butylethyl Ether  
Compounds outside of control limits: None outside of control limits

All reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most  
protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria  
at these levels, unless listed below: All other reporting limits were met.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA  
accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction  
according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals  
immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and  
belief, accurate and complete.



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/5/2009

METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492  
ATTN: DANIEL SEREMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

*Edward Denson 1/5/09*

SIGNATURE

DATE

Tod Kopyscinski  
Air Laboratory Manager

Edward Denson  
Technical Director

LIMS BAT #: LIMT-22297

JOB NUMBER: 60045450.04

Michael Erickson  
Assistant Laboratory Director

Daren Damboragian  
Organics Department Supervisor

\* See end of data tabulation for notes and comments pertaining to this sample

DANIEL SEREMET  
METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

1/5/2009

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: EB

Sample ID : 08B50805

‡Sampled : 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Antimony	ug/L	ND	12/29/08	AMP	5.00		
Arsenic	ug/L	ND	12/30/08	AMP	2.00		
Beryllium	ug/L	ND	12/29/08	AMP	2.00		
Cadmium	ug/L	ND	12/29/08	AMP	2.50		
Chromium	ug/L	ND	12/29/08	AMP	50.0		
Copper	ug/L	ND	12/29/08	AMP	25.0		
Lead	ug/L	ND	12/29/08	AMP	5.00		
Nickel	ug/L	ND	12/29/08	AMP	25.0		
Selenium	ug/L	ND	12/29/08	AMP	25.0		
Silver	ug/L	ND	12/30/08	AMP	2.50		
Thallium	ug/L	ND	12/29/08	AMP	1.00		
Zinc	ug/L	ND	12/29/08	AMP	100		

Analytical Method:

SW846 6020

SAMPLES ARE ANALYZED BY ICP/MS

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

DANIEL SEREMET  
METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

Purchase Order No.:

1/5/2009

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-14 DUP

Sample ID : 08B50808

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	mg/kg dry wt	ND	12/30/08	JMR	0.124		
PCB-1221	mg/kg dry wt	ND	12/30/08	JMR	0.124		
PCB-1232	mg/kg dry wt	ND	12/30/08	JMR	0.124		
PCB-1242	mg/kg dry wt	ND	12/30/08	JMR	0.124		
PCB-1248	mg/kg dry wt	ND	12/30/08	JMR	0.124		
PCB-1254	mg/kg dry wt	ND	12/30/08	JMR	0.124		
PCB-1260	mg/kg dry wt	ND	12/30/08	JMR	0.124		
PCB 1262	mg/kg dry wt	ND	12/30/08	JMR	0.124		
PCB 1268	mg/kg dry wt	ND	12/30/08	JMR	0.124		
Extraction Date PCBs		12/27/2008	12/30/08	JMR			

Analytical Method:

SW846 8081/8082

SAMPLES ARE EXTRACTED BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546),  
CONCENTRATED, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or  
regulatory level for comparison with data to  
determine PASS (P) or FAIL (F) condition of results.

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled



DANIEL SEREMET  
METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

1/5/2009

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: EB

Sample ID : 08B50805

‡Sampled : 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	ug/l	ND	12/29/08	JMR	0.20		
PCB-1221	ug/l	ND	12/29/08	JMR	0.20		
PCB-1232	ug/l	ND	12/29/08	JMR	0.20		
PCB-1242	ug/l	ND	12/29/08	JMR	0.20		
PCB-1248	ug/l	ND	12/29/08	JMR	0.20		
PCB-1254	ug/l	ND	12/29/08	JMR	0.20		
PCB-1260	ug/l	ND	12/29/08	JMR	0.20		
PCB 1262	ug/l	ND	12/29/08	JMR	0.20		
PCB 1268	ug/l	ND	12/29/08	JMR	0.20		
Extraction Date 608/8081/8082		12/26/2008	12/29/08	JMR			

Analytical Method:

SW846 8082

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE BY LIQUID/LIQUID EXTRACTION METHOD SW846 3510C, SOLVENT EXCHANGED WITH HEXANE, CONCENTRATED BY KUDERNA-DANISH OR TURBOVAP EVAPORATIVE METHODS, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

DANIEL SEREMET  
METCALF & EDDY - WALLINGFORD  
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WALLINGFORD, CT 06492

1/5/2009

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: EB

Sample ID: 08B50805

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/l	ND	12/26/08	LBD	5.0		
Acrylonitrile	ug/l	ND	12/26/08	LBD	2.0		
tert-Amylmethyl Ether	ug/l	ND	12/26/08	LBD	0.5		
Benzene	ug/l	ND	12/26/08	LBD	0.5		
Bromobenzene	ug/l	ND	12/26/08	LBD	0.5		
Bromochloromethane	ug/l	ND	12/26/08	LBD	0.5		
Bromodichloromethane	ug/l	ND	12/26/08	LBD	0.5		
Bromoform	ug/l	ND	12/26/08	LBD	5.0		
Bromomethane	ug/l	ND	12/26/08	LBD	0.5		
2-Butanone (MEK)	ug/l	4.0	12/26/08	LBD	2.0		
tert-Butyl Alcohol	ug/l	ND	12/26/08	LBD	5.0		
n-Butylbenzene	ug/l	ND	12/26/08	LBD	0.5		
sec-Butylbenzene	ug/l	ND	12/26/08	LBD	0.5		
tert-Butylbenzene	ug/l	ND	12/26/08	LBD	0.5		
tert-Butylethyl Ether	ug/l	ND	12/26/08	LBD	0.5		
Carbon Disulfide	ug/l	ND	12/26/08	LBD	0.5		
Carbon Tetrachloride	ug/l	ND	12/26/08	LBD	0.5		
Chlorobenzene	ug/l	ND	12/26/08	LBD	0.5		
Chlorodibromomethane	ug/l	ND	12/26/08	LBD	0.5		
Chloroethane	ug/l	ND	12/26/08	LBD	1.0		
Chloroform	ug/l	ND	12/26/08	LBD	0.5		
Chloromethane	ug/l	ND	12/26/08	LBD	0.5		
2-Chlorotoluene	ug/l	ND	12/26/08	LBD	0.5		
4-Chlorotoluene	ug/l	ND	12/26/08	LBD	0.5		
1,2-Dibromo-3-Chloropropane	ug/l	ND	12/26/08	LBD	5.0		
1,2-Dibromoethane	ug/l	ND	12/26/08	LBD	0.50		
Dibromomethane	ug/l	ND	12/26/08	LBD	0.5		
1,2-Dichlorobenzene	ug/l	ND	12/26/08	LBD	0.5		
1,3-Dichlorobenzene	ug/l	ND	12/26/08	LBD	0.5		

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METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

Purchase Order No.:

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: EB

Sample ID: 08B50805

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,4-Dichlorobenzene	ug/l	ND	12/26/08	LBD	0.5		
trans-1,4-Dichloro-2-Butene	ug/l	ND	12/26/08	LBD	0.5		
Dichlorodifluoromethane	ug/l	ND	12/26/08	LBD	0.5		
1,1-Dichloroethane	ug/l	ND	12/26/08	LBD	0.5		
1,2-Dichloroethane	ug/l	ND	12/26/08	LBD	0.5		
1,1-Dichloroethylene	ug/l	ND	12/26/08	LBD	0.5		
cis-1,2-Dichloroethylene	ug/l	ND	12/26/08	LBD	0.5		
trans-1,2-Dichloroethylene	ug/l	ND	12/26/08	LBD	0.5		
1,2-Dichloropropane	ug/l	ND	12/26/08	LBD	0.5		
1,3-Dichloropropane	ug/l	ND	12/26/08	LBD	0.5		
2,2-Dichloropropane	ug/l	ND	12/26/08	LBD	0.5		
1,1-Dichloropropene	ug/l	ND	12/26/08	LBD	0.5		
cis-1,3-Dichloropropene	ug/l	ND	12/26/08	LBD	0.5		
trans-1,3-Dichloropropene	ug/l	ND	12/26/08	LBD	1.0		
Diethyl Ether	ug/l	ND	12/26/08	LBD	0.5		
Diisopropyl Ether	ug/l	ND	12/26/08	LBD	0.5		
1,4-Dioxane	ug/l	ND	12/26/08	LBD	50.0		
Ethyl Benzene	ug/l	ND	12/26/08	LBD	0.5		
Hexachlorobutadiene	ug/l	ND	12/26/08	LBD	1.0		
2-Hexanone	ug/l	ND	12/26/08	LBD	2.0		
Isopropylbenzene	ug/l	ND	12/26/08	LBD	0.5		
p-Isopropyltoluene	ug/l	ND	12/26/08	LBD	0.5		
MTBE	ug/l	ND	12/26/08	LBD	0.5		
Methylene Chloride	ug/l	1.0	12/26/08	LBD	0.5		
MIBK	ug/l	ND	12/26/08	LBD	2.0		
Naphthalene	ug/l	ND	12/26/08	LBD	0.5		
n-Propylbenzene	ug/l	ND	12/26/08	LBD	0.5		
Styrene	ug/l	ND	12/26/08	LBD	0.5		
1,1,1,2-Tetrachloroethane	ug/l	ND	12/26/08	LBD	0.5		

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DANIEL SEREMET  
METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

1/5/2009

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: EB

Sample ID: 08B50805

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,1,2,2-Tetrachloroethane	ug/l	ND	12/26/08	LBD	0.5		
Tetrachloroethylene	ug/l	ND	12/26/08	LBD	0.5		
Tetrahydrofuran	ug/l	ND	12/26/08	LBD	5.0		
Toluene	ug/l	ND	12/26/08	LBD	0.5		
1,2,3-Trichlorobenzene	ug/l	ND	12/26/08	LBD	0.5		
1,2,4-Trichlorobenzene	ug/l	ND	12/26/08	LBD	0.5		
1,1,1-Trichloroethane	ug/l	ND	12/26/08	LBD	0.5		
1,1,2-Trichloroethane	ug/l	ND	12/26/08	LBD	0.5		
Trichloroethylene	ug/l	ND	12/26/08	LBD	0.5		
Trichlorofluoromethane	ug/l	ND	12/26/08	LBD	0.5		
1,2,3-Trichloropropane	ug/l	ND	12/26/08	LBD	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	12/26/08	LBD	0.5		
1,2,4-Trimethylbenzene	ug/l	ND	12/26/08	LBD	0.5		
1,3,5-Trimethylbenzene	ug/l	ND	12/26/08	LBD	0.5		
Vinyl Chloride	ug/l	ND	12/26/08	LBD	0.5		
m + p Xylene	ug/l	ND	12/26/08	LBD	1.0		
o-Xylene	ug/l	ND	12/26/08	LBD	0.5		

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE & TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR 1,4-DIOXANE AND TERT-BUTYLALCOHOL ARE ESTIMATED SINCE RESPONSE FACTORS FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

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NM = Not Measured

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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METCALF & EDDY - WALLINGFORD  
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WALLINGFORD, CT 06492

Purchase Order No.:

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-12 DUP

Sample ID : 08B50807      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	5.43	12/29/08	OP	2.74		

Field Sample #: SB-29 DUP

Sample ID : 08B50810      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	7.24	12/29/08	OP	2.80		

Field Sample #: SB-34 2-4

Sample ID : 08B50798      ‡Sampled : 12/23/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.26	12/29/08	OP	2.88		

Field Sample #: SB-35 0-2

Sample ID : 08B50799      ‡Sampled : 12/23/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	8.02	12/29/08	OP	2.74		

Field Sample #: SB-35 4-5

Sample ID : 08B50800      ‡Sampled : 12/23/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	7.42	12/29/08	OP	3.12		

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‡ = See attached chain-of-custody record for time sampled

DANIEL SEREMET  
METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

1/5/2009

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-36 0-2

Sample ID: 08B50801

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	5.45	12/29/08	OP	2.67		

Field Sample #: SB-36 2-4

Sample ID: 08B50802

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	5.57	12/29/08	OP	2.89		

Analytical Method:

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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SPEC LIMIT = a client specified recommended or  
regulatory level for comparison with data to  
determine PASS (P) or FAIL (F) condition of results.

DANIEL SEREMET  
METCALF & EDDY - WALLINGFORD  
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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-32 DUP

Sample ID : 08B50811

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Extractable TPH (ETPH)	mg/kg dry weight	740	12/30/08	JB	240		

Analytical Method:

Extractable TPH (CT ETPH)

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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‡ = See attached chain-of-custody record for time sampled

DANIEL SEREMET  
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WALLINGFORD, CT 06492

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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: EB

Sample ID : 08B50805

‡Sampled : 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Extractable TPH (ETPH)	mg/l	0.108	12/30/08	JB	0.075		

Analytical Method:

Extractable TPH (CT ETPH)

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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Purchase Order No.:

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

**Field Sample # : EB**

**Sample ID : 08B50805**

‡Sampled : 12/23/2008

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Mercury	mg/l	ND	12/29/08	KM	0.00010		

Analytical Method:

EPA 245.1/SW846 7470

COLD VAPOR TECHNIQUE (FLAMELESS ABSORPTION AT 254 NM)

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Purchase Order No.:

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-16 DUP

Sample ID : 08B50809

‡Sampled : 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Antimony	mg/kg dry wt	ND	12/29/08	OP	4.60		
Arsenic	mg/kg dry wt	10.2	12/29/08	OP	2.88		
Beryllium	mg/kg dry wt	0.63	12/29/08	OP	0.29		
Cadmium	mg/kg dry wt	8.05	12/29/08	OP	0.29		
Chromium	mg/kg dry wt	644	12/29/08	OP	0.58		
Copper	mg/kg dry wt	55.4	12/29/08	OP	0.58		
Lead	mg/kg dry wt	169	12/29/08	OP	0.87		
Mercury	mg/kg dry wt	0.108	12/29/08	KM	0.016		
Nickel	mg/kg dry wt	76.7	12/29/08	OP	0.58		
Selenium	mg/kg dry wt	ND	12/29/08	OP	5.75		
Silver	mg/kg dry wt	ND	12/29/08	OP	0.58		
Thallium	mg/kg dry wt	ND	12/29/08	OP	3.45		
Zinc	mg/kg dry wt	131	12/29/08	OP	1.15		

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DANIEL SEREMET  
METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT  
Date Received: 12/24/2008

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LIMS-BAT #: LIMIT-22297

Job Number: 60045450.04

Analytical Method: Antimony

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Arsenic

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Beryllium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Cadmium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Chromium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Copper

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Lead

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Mercury

SW846 3050/7471

SAMPLES ARE DIGESTED WITH ACIDS AND THEN ANALYZED BY  
COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY

Analytical Method: Nickel

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Selenium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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860 N. MAIN STREET EXTENSION

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Analytical Method: Silver

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Thallium

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

Analytical Method: Zinc

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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DANIEL SEREMET  
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Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-30 DUP

Sample ID : 08B50806

‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	46.2	12/29/08	OP	0.87		

Analytical Method:

SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY  
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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NM = Not Measured

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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: PCB WIPE 1

Sample ID: 08B50803

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: WIPE - OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB-1221	ug	ND	12/29/08	JMR	0.200		
PCB-1232	ug	ND	12/29/08	JMR	0.200		
PCB-1242	ug	ND	12/29/08	JMR	0.200		
PCB-1248	ug	ND	12/29/08	JMR	0.200		
PCB-1254	ug	ND	12/29/08	JMR	0.200		
PCB-1260	ug	ND	12/29/08	JMR	0.200		

Field Sample #: PCB WIPE 1 DUP

Sample ID: 08B50804

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: WIPE - OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB-1221	ug	ND	12/29/08	JMR	0.200		
PCB-1232	ug	ND	12/29/08	JMR	0.200		
PCB-1242	ug	ND	12/29/08	JMR	0.200		
PCB-1248	ug	ND	12/29/08	JMR	0.200		
PCB-1254	ug	ND	12/29/08	JMR	0.200		
PCB-1260	ug	ND	12/29/08	JMR	0.200		

Analytical Method:

SW846 8082

SAMPLES ARE EXTRACTED INTO HEXANE AND ANALYZED BY CAPILLARY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

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DANIEL SEREMET  
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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-12 DUP

Sample ID : 08B50807      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	91.3	12/29/08	TGT			

Field Sample #: SB-14 DUP

Sample ID : 08B50808      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	81.3	12/29/08	TGT			

Field Sample #: SB-16 DUP

Sample ID : 08B50809      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	87.1	12/29/08	TGT			

Field Sample #: SB-29 DUP

Sample ID : 08B50810      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	89.3	12/29/08	TGT			

Field Sample #: SB-30 DUP

Sample ID : 08B50806      ‡Sampled : 12/22/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	86.4	12/29/08	TGT			

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METCALF & EDDY - WALLINGFORD  
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Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-32 DUP

Sample ID: 08B50811

‡Sampled: 12/22/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.1	12/29/08	TGT			

Field Sample #: SB-34 2-4

Sample ID: 08B50798

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	87.1	12/29/08	TGT			

Field Sample #: SB-35 0-2

Sample ID: 08B50799

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	91.3	12/29/08	TGT			

Field Sample #: SB-35 4-5

Sample ID: 08B50800

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	80.3	12/29/08	TGT			

Field Sample #: SB-36 0-2

Sample ID: 08B50801

‡Sampled: 12/23/2008

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	93.9	12/29/08	TGT			

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Purchase Order No.:

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LIMS-BAT #: LIMIT-22297

Date Received: 12/24/2008

Job Number: 60045450.04

Field Sample #: SB-36 2-4

Sample ID : 08B50802

‡Sampled : 12/23/2008  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	86.7	12/29/08	TGT			

Analytical Method:

SM 2540G

PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

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DANIEL SEREMET

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.:

Project Location: 80 HASTINGS ST, BRIDGEPORT, CT

Date Received: 12/24/2008

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LIMS-BAT #: LIMIT-22297

Job Number: 60045450.04

\*\* END OF REPORT \*\*

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### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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QC Batch Number: BATCH-15777

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50805	Silver	Sample Amount	<2.50	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	501.30	ug/L	
		Matrix Spike % Rec.	100.26	%	
	Arsenic	Sample Amount	<2.00	ug/L	75-125
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	498.00	ug/L	
		Matrix Spike % Rec.	99.60	%	
	Beryllium	Sample Amount	<2.00	ug/L	75-125
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	493.74	ug/L	
		Matrix Spike % Rec.	98.74	%	
	Cadmium	Sample Amount	<2.50	ug/L	75-125
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	533.26	ug/L	
		Matrix Spike % Rec.	106.65	%	
	Chromium	Sample Amount	<50.0	ug/L	75-125
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	526.33	ug/L	
		Matrix Spike % Rec.	105.26	%	
	Copper	Sample Amount	<25.0	ug/L	75-125
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	536.74	ug/L	
		Matrix Spike % Rec.	107.34	%	
	Nickel	Sample Amount	<25.0	ug/L	75-125
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	531.06	ug/L	
		Matrix Spike % Rec.	106.21	%	
	Lead	Sample Amount	<5.00	ug/L	75-125
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	531.42	ug/L	
		Matrix Spike % Rec.	106.28	%	
	Antimony	Sample Amount	<5.00	ug/L	75-125
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	514.54	ug/L	
		Matrix Spike % Rec.	102.90	%	
	Selenium	Sample Amount	<25.0	ug/L	75-125
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	522.51	ug/L	
		Matrix Spike % Rec.	104.50	%	
	Thallium	Sample Amount	<1.00	ug/L	75-125
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	494.50	ug/L	

### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

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Sample Matrix Spikes and Matrix Spike Duplicates

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Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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QC Batch Number: BATCH-15777

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50805	Thallium	Matrix Spike % Rec.	98.90	%	75-125
	Zinc	Sample Amount	<100.	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	680.63	ug/L	
		Matrix Spike % Rec.	136.12	%	
BLANK-128105	Silver	Blank	<2.50	ug/L	
	Arsenic	Blank	<2.00	ug/L	
	Beryllium	Blank	<2.00	ug/L	
	Cadmium	Blank	<2.50	ug/L	
	Chromium	Blank	<50.0	ug/L	
	Copper	Blank	<25.0	ug/L	
	Nickel	Blank	<25.0	ug/L	
	Lead	Blank	<5.00	ug/L	
	Antimony	Blank	<5.00	ug/L	
	Selenium	Blank	<25.0	ug/L	
	Thallium	Blank	<1.00	ug/L	
	Zinc	Blank	<100.	ug/L	
LFBLANK-90117	Silver	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	512.29	ug/L	
		Lab Fort Blk. % Rec.	102.46	%	
	Arsenic	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	508.50	ug/L	
		Lab Fort Blk. % Rec.	101.70	%	
	Beryllium	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	469.16	ug/L	
		Lab Fort Blk. % Rec.	93.83	%	
	Cadmium	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	506.62	ug/L	
		Lab Fort Blk. % Rec.	101.32	%	
	Chromium	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	505.26	ug/L	
		Lab Fort Blk. % Rec.	101.05	%	
	Copper	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	517.11	ug/L	
		Lab Fort Blk. % Rec.	103.42	%	
	Nickel	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	516.91	ug/L	
		Lab Fort Blk. % Rec.	103.38	%	
	Lead	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	513.09	ug/L	
		Lab Fort Blk. % Rec.	102.61	%	



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### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

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QC Batch Number: BATCH-15777

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90117	Antimony	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	498.05	ug/L	
		Lab Fort Blk. % Rec.	99.61	%	
	Selenium	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	497.94	ug/L	
		Lab Fort Blk. % Rec.	99.58	%	
	Thallium	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	463.86	ug/L	
		Lab Fort Blk. % Rec.	92.77	%	
	Zinc	Lab Fort Blank Amt.	500.00	ug/L	80-120
		Lab Fort Blk. Found	782.75	ug/L	
		Lab Fort Blk. % Rec.	156.55	%	

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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QC Batch Number: GC/ECD-12048

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50805	Decachlorobiphenyl	Surrogate Recovery	56.6	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	79.2	%	30-150
BLANK-128107	PCB-1232	Blank	<0.20	ug/l	
	PCB-1242	Blank	<0.20	ug/l	
	PCB-1254	Blank	<0.20	ug/l	
	PCB-1260	Blank	<0.20	ug/l	
	PCB-1248	Blank	<0.20	ug/l	
	PCB-1221	Blank	<0.20	ug/l	
	PCB 1016	Blank	<0.20	ug/l	
	PCB 1262	Blank	<0.20	ug/l	
	PCB 1268	Blank	<0.20	ug/l	
LFBLANK-90119	PCB-1260	Lab Fort Blank Amt.	0.50	ug/l	
		Lab Fort Blk. Found	0.45	ug/l	
		Lab Fort Blk. % Rec.	91.80	%	40-140
		Dup Lab Fort Bl Amt.	0.50	ug/l	
		Dup Lab Fort Bl. Fnd	0.46	ug/l	
		Dup Lab Fort Bl %Rec	93.40	%	
		Lab Fort Blank Range	1.60	units	
		Lab Fort Bl. Av. Rec	92.60	%	
		LFB Duplicate RPD	1.72	%	0-20
	PCB 1016	Lab Fort Blank Amt.	0.50	ug/l	
		Lab Fort Blk. Found	0.50	ug/l	
		Lab Fort Blk. % Rec.	101.60	%	40-140
		Dup Lab Fort Bl Amt.	0.50	ug/l	
		Dup Lab Fort Bl. Fnd	0.59	ug/l	
		Dup Lab Fort Bl %Rec	119.40	%	
		Lab Fort Blank Range	17.80	units	
		Lab Fort Bl. Av. Rec	110.50	%	
		LFB Duplicate RPD	16.10	%	0-20

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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QC Batch Number: GC/ECD-12049

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50803	Decachlorobiphenyl	Surrogate Recovery	83.4	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	86.1	%	30-150
08B50804	Decachlorobiphenyl	Surrogate Recovery	86.9	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	87.6	%	30-150
BLANK-128106	PCB-1232	Blank	<0.200	ug	
	PCB-1242	Blank	<0.200	ug	
	PCB-1254	Blank	<0.200	ug	
	PCB-1260	Blank	<0.200	ug	
	PCB-1248	Blank	<0.200	ug	
	PCB-1221	Blank	<0.200	ug	

### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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QC Batch Number: GC/ECD-12053

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50808	Decachlorobiphenyl	Surrogate Recovery	70.0	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	102.7	%	30-150
BLANK-128145	PCB-1232	Blank	<0.100	mg/kg dry wt	
	PCB-1242	Blank	<0.100	mg/kg dry wt	
	PCB-1254	Blank	<0.100	mg/kg dry wt	
	PCB-1260	Blank	<0.100	mg/kg dry wt	
	PCB-1248	Blank	<0.100	mg/kg dry wt	
	PCB-1221	Blank	<0.100	mg/kg dry wt	
	PCB 1016	Blank	<0.100	mg/kg dry wt	
	PCB 1262	Blank	<0.100	mg/kg dry wt	
	PCB 1268	Blank	<0.100	mg/kg dry wt	
LFBLANK-90162	PCB-1260	Lab Fort Blank Amt.	0.200	mg/kg dry wt	
		Lab Fort Blk. Found	0.209	mg/kg dry wt	
		Lab Fort Blk. % Rec.	104.750	%	40-140
		Dup Lab Fort Bl Amt.	0.200	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.171	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	85.500	%	
		Lab Fort Blank Range	19.250	units	
		Lab Fort Bl. Av. Rec	95.125	%	
		LFB Duplicate RPD	20.236	%	0-30
	PCB 1016	Lab Fort Blank Amt.	0.200	mg/kg dry wt	
		Lab Fort Blk. Found	0.184	mg/kg dry wt	
		Lab Fort Blk. % Rec.	92.250	%	40-140
		Dup Lab Fort Bl Amt.	0.200	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.198	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	99.250	%	
		Lab Fort Blank Range	7.000	units	
		Lab Fort Bl. Av. Rec	95.750	%	
		LFB Duplicate RPD	7.310	%	0-30



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QC Batch Number: GC/FID-22889

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50805	Terphenyl	Surrogate Recovery	81.0	%	50-150
BLANK-128191	Extractable TPH (ETPH)	Blank	<0.075	mg/l	
LFBLANK-90214	Extractable TPH (ETPH)	Lab Fort Blank Amt.	1.000	mg/l	
		Lab Fort Blk. Found	0.745	mg/l	
		Lab Fort Blk. % Rec.	74.500	%	60-120
		Dup Lab Fort Bl Amt.	1.000	mg/l	
		Dup Lab Fort Bl. Fnd	0.741	mg/l	
		Dup Lab Fort Bl %Rec	74.100	%	
		Lab Fort Blank Range	0.400	units	
		Lab Fort Bl. Av. Rec	74.300	%	
		LFB Duplicate RPD	0.538	%	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50811	Terphenyl	Surrogate Recovery	N.M.	%	50-150
BLANK-128204	Extractable TPH (ETPH)	Blank	<10.0	mg/kg dry weig	
LFBLANK-90226	Extractable TPH (ETPH)	Lab Fort Blank Amt.	33.3	mg/kg dry weig	
		Lab Fort Blk. Found	23.0	mg/kg dry weig	
		Lab Fort Blk. % Rec.	69.1	%	60-120
		Dup Lab Fort Bl Amt.	33.3	mg/kg dry weig	
		Dup Lab Fort Bl. Fnd	21.7	mg/kg dry weig	
		Dup Lab Fort Bl %Rec	65.2	%	
		Lab Fort Blank Range	3.9	units	
		Lab Fort Bl. Av. Rec	67.1	%	
		LFB Duplicate RPD	5.8	%	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50805	1,2-Dichloroethane-d4	Surrogate Recovery	100.4	%	70-130
	Toluene-d8	Surrogate Recovery	99.6	%	70-130
	Bromofluorobenzene	Surrogate Recovery	101.5	%	70-130
BLANK-128170	Acetone	Blank	<5.0	ug/l	
	Benzene	Blank	<0.5	ug/l	
	Carbon Tetrachloride	Blank	<0.5	ug/l	
	Chloroform	Blank	<0.5	ug/l	
	1,2-Dichloroethane	Blank	<0.5	ug/l	
	1,4-Dichlorobenzene	Blank	<0.5	ug/l	
	Ethyl Benzene	Blank	<0.5	ug/l	
	2-Butanone (MEK)	Blank	<2.0	ug/l	
	MIBK	Blank	<2.0	ug/l	
	Naphthalene	Blank	<0.5	ug/l	
	Styrene	Blank	<0.5	ug/l	
	Tetrachloroethylene	Blank	<0.5	ug/l	
	Toluene	Blank	<0.5	ug/l	
	1,1,1-Trichloroethane	Blank	<0.5	ug/l	
	Trichloroethylene	Blank	<0.5	ug/l	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.5	ug/l	
	Trichlorofluoromethane	Blank	<0.5	ug/l	
	o-Xylene	Blank	<0.5	ug/l	
	m + p Xylene	Blank	<1.0	ug/l	
	1,2-Dichlorobenzene	Blank	<0.5	ug/l	
	1,3-Dichlorobenzene	Blank	<0.5	ug/l	
	1,1-Dichloroethane	Blank	<0.5	ug/l	
	1,1-Dichloroethylene	Blank	<0.5	ug/l	
	1,4-Dioxane	Blank	<50.0	ug/l	
	MTBE	Blank	<0.5	ug/l	
	trans-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	Vinyl Chloride	Blank	<0.5	ug/l	
	Methylene Chloride	Blank	<0.5	ug/l	
	Chlorobenzene	Blank	<0.5	ug/l	
	Chloromethane	Blank	<0.5	ug/l	
	Bromomethane	Blank	<0.5	ug/l	
	Chloroethane	Blank	<1.0	ug/l	
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l	
	trans-1,3-Dichloropropene	Blank	<1.0	ug/l	
	Chlorodibromomethane	Blank	<0.5	ug/l	
	1,1,2-Trichloroethane	Blank	<0.5	ug/l	
	Bromoform	Blank	<5.0	ug/l	
	1,1,2,2-Tetrachloroethane	Blank	<0.5	ug/l	
	2-Chlorotoluene	Blank	<0.5	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128170	Hexachlorobutadiene	Blank	<1.0	ug/l	
	Isopropylbenzene	Blank	<0.5	ug/l	
	p-Isopropyltoluene	Blank	<0.5	ug/l	
	n-Propylbenzene	Blank	<0.5	ug/l	
	sec-Butylbenzene	Blank	<0.5	ug/l	
	tert-Butylbenzene	Blank	<0.5	ug/l	
	1,2,3-Trichlorobenzene	Blank	<0.5	ug/l	
	1,2,4-Trichlorobenzene	Blank	<0.5	ug/l	
	1,2,4-Trimethylbenzene	Blank	<0.5	ug/l	
	1,3,5-Trimethylbenzene	Blank	<0.5	ug/l	
	Dibromomethane	Blank	<0.5	ug/l	
	cis-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	4-Chlorotoluene	Blank	<0.5	ug/l	
	1,1-Dichloropropene	Blank	<0.5	ug/l	
	1,2-Dichloropropane	Blank	<0.5	ug/l	
	1,3-Dichloropropane	Blank	<0.5	ug/l	
	2,2-Dichloropropane	Blank	<0.5	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<0.5	ug/l	
	1,2,3-Trichloropropane	Blank	<0.5	ug/l	
	n-Butylbenzene	Blank	<0.5	ug/l	
	Dichlorodifluoromethane	Blank	<0.5	ug/l	
	Bromochloromethane	Blank	<0.5	ug/l	
	Bromobenzene	Blank	<0.5	ug/l	
	Acrylonitrile	Blank	<2.0	ug/l	
	Carbon Disulfide	Blank	<0.5	ug/l	
	2-Hexanone	Blank	<2.0	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<0.5	ug/l	
	Diethyl Ether	Blank	<0.5	ug/l	
	Bromodichloromethane	Blank	<0.5	ug/l	
	1,2-Dibromo-3-Chloropropane	Blank	<5.0	ug/l	
	1,2-Dibromoethane	Blank	<0.50	ug/l	
	Tetrahydrofuran	Blank	<5.0	ug/l	
	tert-Butyl Alcohol	Blank	<5.0	ug/l	
	Diisopropyl Ether	Blank	<0.5	ug/l	
	tert-Butylethyl Ether	Blank	<0.5	ug/l	
	tert-Amylmethyl Ether	Blank	<0.5	ug/l	
LFBLANK-90191	Acetone	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	106.8	ug/l	
		Lab Fort Blk. % Rec.	106.8	%	70-160
	Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.7	%	70-130

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LFBLANK-90191					
	Carbon Tetrachloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.9	%	70-130
	Chloroform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.1	ug/l	
		Lab Fort Blk. % Rec.	91.9	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.5	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.2	%	70-130
	Ethyl Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.2	%	70-130
	2-Butanone (MEK)	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	119.1	ug/l	
		Lab Fort Blk. % Rec.	119.1	%	40-160
	MIBK	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	115.0	ug/l	
		Lab Fort Blk. % Rec.	115.0	%	70-160
	Naphthalene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.7	%	40-130
	Styrene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.5	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.5	%	70-160
	Toluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.3	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.4	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.2	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.0	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	10.0	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90191	Trichlorofluoromethane	Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.7	%	70-130
	o-Xylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.9	%	70-130
	m + p Xylene	Lab Fort Blank Amt.	20.0	ug/l	
		Lab Fort Blk. Found	20.2	ug/l	
		Lab Fort Blk. % Rec.	101.3	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.6	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.5	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.1	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.7	%	70-130
	1,4-Dioxane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	86.7	ug/l	
		Lab Fort Blk. % Rec.	86.7	%	40-130
	MTBE	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.3	ug/l	
		Lab Fort Blk. % Rec.	113.1	%	70-130
	trans-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.7	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.7	ug/l	
		Lab Fort Blk. % Rec.	87.1	%	40-160
	Methylene Chloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.0	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.4	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.0	ug/l	
		Lab Fort Blk. % Rec.	90.2	%	40-160
	Bromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	5.8	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90191	Bromomethane	Lab Fort Blk. % Rec.	58.5	%	40-160
	Chloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.8	ug/l	
		Lab Fort Blk. % Rec.	88.5	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.4	ug/l	
		Lab Fort Blk. % Rec.	114.0	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.9	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.9	ug/l	
		Lab Fort Blk. % Rec.	89.7	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.9	%	70-130
	Bromoform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.3	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.8	ug/l	
		Lab Fort Blk. % Rec.	108.5	%	70-130
	2-Chlorotoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.9	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.1	%	70-130
	Isopropylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.4	ug/l	
		Lab Fort Blk. % Rec.	114.1	%	70-130
	p-Isopropyltoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.2	%	70-130
	n-Propylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.5	%	70-130
	sec-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.1	%	70-130
	tert-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.4	%	70-130

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LFBLANK-90191					
1,2,3-Trichlorobenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.8	%	
1,2,4-Trichlorobenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.6	ug/l	
		Lab Fort Blk. % Rec.	106.9	%	
1,2,4-Trimethylbenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.8	%	
1,3,5-Trimethylbenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.2	%	
Dibromomethane		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.5	ug/l	
		Lab Fort Blk. % Rec.	105.5	%	
cis-1,2-Dichloroethylene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.9	%	
4-Chlorotoluene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.4	%	
1,1-Dichloropropene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.0	%	
1,2-Dichloropropane		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.7	%	
1,3-Dichloropropane		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.5	ug/l	
		Lab Fort Blk. % Rec.	105.6	%	
2,2-Dichloropropane		Lab Fort Blank Amt.	10.0	ug/l	40-130
		Lab Fort Blk. Found	11.1	ug/l	
		Lab Fort Blk. % Rec.	111.9	%	
1,1,1,2-Tetrachloroethane		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	8.8	ug/l	
		Lab Fort Blk. % Rec.	88.3	%	
1,2,3-Trichloropropane		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.0	%	
n-Butylbenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.6	%	
Dichlorodifluoromethane		Lab Fort Blank Amt.	10.0	ug/l	70-130



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LFBLANK-90191					
	Dichlorodifluoromethane	Lab Fort Blk. Found	10.5	ug/l	40-160
		Lab Fort Blk. % Rec.	105.1	%	
	Bromochloromethane	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.4	ug/l	
	Bromobenzene	Lab Fort Blk. % Rec.	104.0	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	Acrylonitrile	Lab Fort Blk. Found	10.2	ug/l	70-130
		Lab Fort Blk. % Rec.	102.9	%	
	Carbon Disulfide	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	11.1	ug/l	
	2-Hexanone	Lab Fort Blk. % Rec.	111.8	%	70-130
		Lab Fort Blank Amt.	100.0	ug/l	
	trans-1,4-Dichloro-2-Butene	Lab Fort Blk. Found	105.8	ug/l	70-160
		Lab Fort Blk. % Rec.	105.8	%	
	Diethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.0	ug/l	
	Bromodichloromethane	Lab Fort Blk. % Rec.	100.9	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	1,2-Dibromo-3-Chloropropane	Lab Fort Blk. Found	9.6	ug/l	70-130
		Lab Fort Blk. % Rec.	96.5	%	
	1,2-Dibromoethane	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.0	ug/l	
	Tetrahydrofuran	Lab Fort Blk. % Rec.	100.3	%	70-130
		Lab Fort Blank Amt.	10.00	ug/l	
	tert-Butyl Alcohol	Lab Fort Blk. Found	10.88	ug/l	70-130
		Lab Fort Blk. % Rec.	108.80	%	
	Diisopropyl Ether	Lab Fort Blank Amt.	10.0	ug/l	40-160
		Lab Fort Blk. Found	10.3	ug/l	
	tert-Butylethyl Ether	Lab Fort Blk. % Rec.	103.5	%	70-130
		Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	104.5	ug/l	40-160
		Lab Fort Blk. % Rec.	104.5	%	
		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.9	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.0	ug/l	
		Lab Fort Blk. % Rec.			

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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QC Batch Number: GCMS/VOL-21235

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90191	tert-Butylethyl Ether	Lab Fort Blk. % Rec.	110.6	%	70-160
	tert-Amylmethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.2	%	70-130

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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QC Batch Number: HG-9749

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50805	Mercury	Sample Amount	<0.00010	mg/l	
		Matrix Spk Amt Added	0.00200	mg/l	
		MS Amt Measured	0.00190	mg/l	
		Matrix Spike % Rec.	95.10000	%	75-125
BLANK-128089	Mercury	Blank	<0.00010	mg/l	
LFBLANK-90100	Mercury	Lab Fort Blank Amt.	0.00200	mg/l	
		Lab Fort Blk. Found	0.00206	mg/l	
		Lab Fort Blk. % Rec.	103.10000	%	85-115



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### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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QC Batch Number: HG-9750

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128090					
	Mercury	Blank	<0.025	mg/kg dry wt	
LFBLANK-90101					
	Mercury	Lab Fort Blank Amt.	1.250	mg/kg dry wt	
		Lab Fort Blk. Found	1.202	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.167	%	65.9-133

### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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QC Batch Number: ICP-20905

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50801	Arsenic	Sample Amount	5.45	mg/kg dry wt	
		Duplicate Value	9.10	mg/kg dry wt	
		Duplicate RPD	50.22	%	0-35
		Sample Amount	5.45	mg/kg dry wt	
		Matrix Spk Amt Added	26.62	mg/kg dry wt	
		MS Amt Measured	31.60	mg/kg dry wt	
		Matrix Spike % Rec.	98.24	%	75-125
BLANK-128150	Silver	Blank	<0.50	mg/kg dry wt	
	Arsenic	Blank	<2.50	mg/kg dry wt	
	Beryllium	Blank	<0.25	mg/kg dry wt	
	Cadmium	Blank	<0.25	mg/kg dry wt	
	Chromium	Blank	<0.50	mg/kg dry wt	
	Copper	Blank	<0.50	mg/kg dry wt	
	Nickel	Blank	<0.50	mg/kg dry wt	
	Lead	Blank	<0.75	mg/kg dry wt	
	Antimony	Blank	<4.00	mg/kg dry wt	
	Selenium	Blank	<5.00	mg/kg dry wt	
	Thallium	Blank	<3.00	mg/kg dry wt	
	Zinc	Blank	<1.00	mg/kg dry wt	
LFBLANK-90166	Silver	Lab Fort Blank Amt.	81.20	mg/kg dry wt	
		Lab Fort Blk. Found	65.55	mg/kg dry wt	
		Lab Fort Blk. % Rec.	80.72	%	66-133
	Arsenic	Lab Fort Blank Amt.	133.00	mg/kg dry wt	
		Lab Fort Blk. Found	119.21	mg/kg dry wt	
		Lab Fort Blk. % Rec.	89.63	%	80-120
	Beryllium	Lab Fort Blank Amt.	117.00	mg/kg dry wt	
		Lab Fort Blk. Found	106.55	mg/kg dry wt	
		Lab Fort Blk. % Rec.	91.06	%	84-116
	Cadmium	Lab Fort Blank Amt.	103.00	mg/kg dry wt	
		Lab Fort Blk. Found	92.53	mg/kg dry wt	
		Lab Fort Blk. % Rec.	89.83	%	83-117
	Chromium	Lab Fort Blank Amt.	219.00	mg/kg dry wt	
		Lab Fort Blk. Found	211.08	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.38	%	82-118
	Copper	Lab Fort Blank Amt.	155.00	mg/kg dry wt	
		Lab Fort Blk. Found	155.79	mg/kg dry wt	
		Lab Fort Blk. % Rec.	100.50	%	83-117
	Nickel	Lab Fort Blank Amt.	119.00	mg/kg dry wt	
		Lab Fort Blk. Found	108.66	mg/kg dry wt	
		Lab Fort Blk. % Rec.	91.31	%	80-120
	Lead	Lab Fort Blank Amt.	165.00	mg/kg dry wt	



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### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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QC Batch Number: ICP-20905

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90166	Lead	Lab Fort Blk. Found	138.81	mg/kg dry wt	82-118
		Lab Fort Blk. % Rec.	84.12	%	
	Antimony	Lab Fort Blank Amt.	79.20	mg/kg dry wt	30-207
		Lab Fort Blk. Found	73.73	mg/kg dry wt	
	Selenium	Lab Fort Blk. % Rec.	93.10	%	77-123
		Lab Fort Blank Amt.	94.10	mg/kg dry wt	
	Thallium	Lab Fort Blk. Found	86.55	mg/kg dry wt	82-120
		Lab Fort Blk. % Rec.	91.97	%	
	Zinc	Lab Fort Blank Amt.	152.00	mg/kg dry wt	81-119
		Lab Fort Blk. Found	137.56	mg/kg dry wt	
		Lab Fort Blk. % Rec.	90.50	%	
		Lab Fort Blank Amt.	280.00	mg/kg dry wt	
		Lab Fort Blk. Found	252.43	mg/kg dry wt	
		Lab Fort Blk. % Rec.	90.15	%	



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#### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat # : LIMIT-22297

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#### NOTES:

QC Batch No. : GC/FID-22891

Sample ID : 08B50811

Analysis : Terphenyl

SURROGATE CONCENTRATION BELOW DETECTION LIMIT DUE TO DILUTION REQUIRED  
FOR SAMPLE ANALYSIS.

# QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/5/2009

Lims Bat #: LIMIT-22297

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## QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries





## REASONABLE CONFIDENCE PROTOCOL

### LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: METCALF & EDDY

Project Location: BRIDGEPORT, CT

Project Number: LIMT-22297

Laboratory Sample ID(s): 08B50798-08B50811

Sampling Date(s): 12/22/08-12/23/08

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6020, 8082, 8260, 6010, ETPH, 7470, 7471

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<i>VPH and EPH Methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature ( $<6^{\circ}\text{C}$ )?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Edward Denson Position: Technical Director

Printed Name: Edward Denson

Date: 1/5/09

Name of Laboratory: CON-TEST ANALYTICAL LABORATORY

This certification form is to be used for RCP methods only.



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

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# CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR  
EAST LONGMEADOW, MA 01028

Page

45

Company Name: MASTEC GROUP INC

Address: 860 N. MAIN ST RT

Attention: Panel Secret

Project Location: BRIDGE/MT, CT

Sampled By: SEAN ET

Proposal Provided? (For Billing purposes) ☐ yes ☐ no

State Form Required? ☐ yes ☐ no

Field ID Sample Description Lab # 08B

SB-34 2-4 5078498 12/23/08

SB-35 0-2 5078599 12/23/08

SB-35 4-3 50786800 12/23/08

SB-36 0-2 50787801 12/23/08

SB-36 2-4 50788802 12/23/08

PCB W/MT 1 50788803 12/23/08

PCB W/MT 1 50788804 12/23/08

Laboratory Comments:

Relinquished by: (signature) [Signature] Date/Time: 12/24/08

Received by: (signature) [Signature] Date/Time: 12/24/08

Relinquished by: (signature) [Signature] Date/Time: 12/24/08

Received by: (signature) [Signature] Date/Time: 12/24/08

Received by: (signature) [Signature] Date/Time: 12/24/08

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Received by: (signature) [Signature] Date/Time: 12/24/08

Received by: (signature) [Signature] Date/Time: 12/24/08

Received by: (signature) [Signature] Date/Time: 12/24/08

Received by: (signature) [Signature] Date/Time: 12/24/08

Telephone: (203) 741 2834

Project # 6045450.04

Client PO #

DATA DELIVERY (check one): ☒ FAX ☐ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: dan.schneider@conquest.com

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time

Stop Date/Time

Comp-oste

Grab

Matrix Code

Conc. Code

Analysis Requested

Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V=via

S=summary can

T=tedlar bag

O=Other

Comments:

Turnaround Time Starts at 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High, M - Medium, L - Low, C - Clean, U - Unknown

Detection Limit Requirements

Regulations? CLP

Lower of RDL, CA, PML

Data Enhancement Project/PCP ☒ YES ☐ NO

Special Requirements or DL's: RC Required

\*Matrix Code:

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

O = other

\*\*Preservation Codes:

I = iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

X = Na hydroxide

T = Na thiosulfate

AIHA, NELAP & WBE/DBE Certified



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# CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR  
EAST LONGMEADOW, MA 01028

Page 5 of 5

Company Name: Metcalfe & Egan  
Address: 860 N. Main St. West  
Wallingford CT 06492

Telephone: 203 741-2034  
Project # 6004545007

Attention: A. Sermet

Project Location: Bridgeport CT  
Sampled By: Sermet

Proposal Provided? (For Billing purposes) ☐ yes ☐ no

State Form Required? ☐ yes ☐ no

Client PO #

DATA DELIVERY (check one):  
☐ FAX ☐ EMAIL ☒ WEBSITE CLIENT

Fax #:

Email: den.sermet@metcalfe.com

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time

Stop Date/Time

Comp- osite

Grab

Matrix | Conc. Code

Code

PCBs

PP13 metals

ETPH

VOCs

Lead

Asenic

VOCs

PP13 metals

PCBs

ETPH

Analysis Requested

Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V=vial

S=summary can

T=tedlar bag

O=Other

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	Matrix   Conc. Code	Code	PCBs	PP13 metals	ETPH	VOCs	Lead	Asenic	VOCs	PP13 metals	PCBs	ETPH	Analysis Requested	Cont. Code:
EB		50805	12/23/08						X	X	X									
SB-30 DUP		50806	12/23/08																	
SB-12 DUP		50807	12/23/08																	
SB-14 DUP		50808	12/23/08																	
SB-16 DUP		50809	12/23/08																	
SB-29 DUP		50810	12/23/08																	
SB-32 DUP		50811	12/23/08																	

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround \*\*

☒ 7-Day

☐ 10-Day

☐ Other

RUSH \*

☐ \*24-Hr ☐ \*48-Hr

☐ \*72-Hr ☐ \*4-Day

\* Require lab approval

Detection Limit Requirements

Regulations? CT ASR

Lower of ADAC CMPC

Data Enhancement Project/RCP? ☐ Y ☒ N

Special Requirements or DL's:

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

\*Matrix Code:

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

O = other

\*\*Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

Client Comments:

\*\* TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified





Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com

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# CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR  
EAST LONGMEADOW, MA 01028

Page 2 of 5

Company Name: MITCHELL STEAKS / AECOM

Address: 860 N Main St Apt

Wallingford CT 06492

Attention: Daniel Sennett

Project Location: BALDWIN CT

Sampled By: S ERMET

Proposal Provided? (For Billing purposes)

☐ yes ☐ no

State Form Required?

☐ yes ☐ no

Telephone: 203 741-2839

Project # 60045450.04

Client PO #

DATA DELIVERY (check one):

☐ FAX ☐ EMAIL ☒ WEBSITE CLIENT

Fax #:

Email: don.sennett@aecom.com

Format: ☒ EXCEL ☒ PDF ☐ GIS KEY

☐ OTHER

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	*Matrix   Conc. Code   Code	Client Comments:
----------	--------------------	-------	-----------------	----------------	----------------	------	--------------------------------	---------------------

SB-19			12/22/08			X	S	Arsenic
-------	--	--	----------	--	--	---	---	---------

SB-20			12/22/08			X	S	VOCs
-------	--	--	----------	--	--	---	---	------

SB-21			12/22/08			X	S	PCBs
-------	--	--	----------	--	--	---	---	------

SB-22			12/22/08			X	S	PP17
-------	--	--	----------	--	--	---	---	------

SB-23			12/22/08			X	S	ETPH
-------	--	--	----------	--	--	---	---	------

SB-24			12/22/08			X	S	
-------	--	--	----------	--	--	---	---	--

SB-25			12/22/08			X	S	
-------	--	--	----------	--	--	---	---	--

SB-26			12/22/08			X	S	
-------	--	--	----------	--	--	---	---	--

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	Turnaround **	Detection Limit Requirements	*Matrix Code:	**Preservation Codes:
------------------------------	------------	---------------	------------------------------	---------------	-----------------------

Received by: (signature)	Date/Time:	<input checked="" type="checkbox"/> 24-Hr <input type="checkbox"/> 48-Hr <input type="checkbox"/> 72-Hr <input type="checkbox"/> 4-Day	Regulations? <u>STARS</u>	GW = groundwater	I = Iced X = Na hydroxide
--------------------------	------------	--	---------------------------	------------------	---------------------------

Relinquished by: (signature)	Date/Time:	<input type="checkbox"/> 10-Day <input type="checkbox"/> Other	Lower of RDC, GADM	WW = wastewater	H = HCL X = Na thiosulfate
------------------------------	------------	--	--------------------	-----------------	----------------------------

Received by: (signature)	Date/Time:	<input type="checkbox"/> RUSH *	Data Enhancement Project/RCR? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	DW = drinking water	M = Methanol
--------------------------	------------	---------------------------------	--	---------------------	--------------

	Date/Time:	<input type="checkbox"/> *24-Hr <input type="checkbox"/> *48-Hr	Special Requirements or DL's:	A = air	S = Sulfuric Acid
--	------------	---	-------------------------------	---------	-------------------

	Date/Time:	<input type="checkbox"/> *72-Hr <input type="checkbox"/> 4-Day	RCR Required	SL = sludge	B = Sodium bisulfate
--	------------	--	--------------	-------------	----------------------

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.





# **Sample Receipt Checklist**

 CLIENT NAME: Metcalfe/AECOM RECEIVED BY: CEC DATE: 12/24/08

1) Was the chain(s) of custody relinquished and signed?

Yes No

2) Does the chain agree with the samples?

Yes No

If not, explain:

3) Are all the samples in good condition?

Yes No

If not, explain:

4) How were the samples received:

 On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)?

Yes No

 Temperature °C by Temp blank 3.0 Temperature °C by Temp gun \_\_\_\_\_

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any samples "On Hold"?

Yes No

Stored where: \_\_\_\_\_

7) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

8) Location where samples are stored:

19

 Permission to subcontract samples? Yes No  
 (Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

## **Containers sent in to Con-Test**

	# of containers		# of containers
1 Liter Amber	4	8 oz clear jar	
500 mL Amber		4 oz clear jar	2
250 mL Amber (8oz amber)	39	2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic	1	Air Cassette	
40 mL Vial - type listed below	11	Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other	

Laboratory Comments:

 40 mL vials: # HCl 2 # Methanol 3

 # Bisulfate 6 # DI Water \_\_\_\_\_

# Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen: \_\_\_\_\_

Do all samples have the proper pH: Yes No N/A



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 1/13/2009

METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492  
ATTN: CHRIS SHORES

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER: 60045450

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22446  
JOB NUMBER: 60045450

PROJECT LOCATION: 80 HASTINGS ST., BRIDGEPORT, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
EB	09B00196	WATER OTHE	Not Specified	6020 pp 12 water	
EB	09B00196	WATER OTHE	Not Specified	8260 water	
EB	09B00196	WATER OTHE	Not Specified	chromium (+6)	
EB	09B00196	WATER OTHE	Not Specified	cyanide-total	
EB	09B00196	WATER OTHE	Not Specified	etph water	
EB	09B00196	WATER OTHE	Not Specified	hg (mg/l) wet	
MW-1	09B00194	GRND WATER	Not Specified	8260 water	
MW-1	09B00194	GRND WATER	Not Specified	chromium (+6)	
MW-1	09B00194	GRND WATER	Not Specified	etph water	
MW-1	09B00197	GRND WATER	Not Specified	6020 pp 12 water	
MW-1	09B00197	GRND WATER	Not Specified	cyanide-total	
MW-1	09B00197	GRND WATER	Not Specified	hg (mg/l) wet	
MW-1 DUP	09B00195	GRND WATER	Not Specified	8260 water	
MW-1 DUP	09B00195	GRND WATER	Not Specified	chromium (+6)	
MW-1 DUP	09B00195	GRND WATER	Not Specified	etph water	
MW-1 DUP	09B00198	GRND WATER	Not Specified	6020 pp 12 water	
MW-1 DUP	09B00198	GRND WATER	Not Specified	cyanide-total	
MW-1 DUP	09B00198	GRND WATER	Not Specified	hg (mg/l) wet	
TRIP BLANK	09B00199	WATER OTHE	Not Specified	8260 water	





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PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22446  
JOB NUMBER: 60045450

Comments :

LIMS BATCH NO. : LIMIT-22446

#### CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples analyzed by method(s) listed unless listed below: None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4 degrees C +/- 2 degrees as specified on the chain-of-custody form unless listed below:  
All properly preserved

In method 6020, the Interference Check Standard was outside control limits for Se. Possibility of low bias for any reported results cannot be eliminated. Analysis is in control based on LFB recovery.

In method 8260, the initial and/or continuing calibration did not meet method specifications. For all samples, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, and 1,4-Dioxane were calibrated with a relative response factor <0.05.

In method 8260, any reported result for Bromomethane, Acetone, tert-Butyl Alcohol, Chloromethane, and 2,2-Dichloropropane in samples 09B00194, 00196, and 00199 is estimated and likely to be biased on the low side based on continuing calibration bias.

In method 8260, any reported result for Chloromethane in sample 09B00195 is estimated and likely to be biased on the low side based on continuing calibration bias.

In method 8260, any reported result for Chloromethane and 1,2,4-Trichlorobenzene in all samples is likely to be biased on the low side based on laboratory fortified blank (laboratory control sample) recovery bias.

There are no other issues which affect the usability of the data.

#### DETAILED CASE NARRATIVE

##### METHOD SW846-7196A

Matrix spike and matrix spike duplicate performed on sample 09B00196.

##### METHOD SW846 6020 - ADDITIONAL COMMENTS

Sample duplicate and matrix spike performed on sample 09B00197. Sample duplicate not reported for Be, Se, Ag, and Tl due to non detect sample and duplicate results. The duplicate RPD was outside of control limits for As, however, control limits are not applicable when results are <5X the reporting limit.

Samples 09B00197 (including Dup and MS) and 09B00198 were diluted 50X to obtain results for Cd, Cr, Cu, and Zn within the linear dynamic range.

Only PP13 metals were requested and reported.

##### CT ETPH METHOD - ADDITIONAL COMMENTS



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REPORT DATE 1/13/2009

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CONTRACT NUMBER:  
PURCHASE ORDER NUMBER: 60045450

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMS-22446

JOB NUMBER: 60045450

All CT ETPH samples were analyzed undiluted unless specified below:  
No dilutions were performed.

#### METHOD SW846 8260 LOW LEVEL WATER - ADDITIONAL COMMENTS

The 8260 method blank was not contaminated with target analytes at levels above the reporting limit except where listed below:

In method 8260, the method blank associated with samples 09B00194, 00196, and 00199 contained Chloroform at 0.63ug/L.

In method 8260, the method blank associated with sample 09B00195 contained Chloroform at 1.18ug/L.

The LCS recoveries for required CT reasonable confidence protocol (RCP) 8260 compounds were all within limits specified by the method except for "difficult analytes" where control limits somewhere between 40-160% are used and/or unless otherwise listed in this narrative.  
Difficult analytes: MIBK, MEK, Tetrachloroethylene, Tert-butyl Alcohol, Acetone, 1,4-Dioxane, Vinyl Chloride, Chloromethane, Bromomethane, Naphthalene, 2,2-Dichloropropane, Dichlorodifluoromethane, 2-Hexanone, and Tert-butylethyl Ether

All reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless listed below:  
All other reporting limits were met.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

*Edward Denson* 1/13/09

SIGNATURE

DATE

Tod Kopyscinski  
Air Laboratory Manager

Michael Erickson  
Assistant Laboratory Director

Edward Denson  
Technical Director

Daren Damboragian  
Organics Department Supervisor

\* See end of data tabulation for notes and comments pertaining to this sample

CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: EB

Sample ID : 09B00196

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Antimony	ug/L	ND	01/09/09	KMT	5.00		
Arsenic	ug/L	ND	01/09/09	KMT	2.00		
Beryllium	ug/L	ND	01/09/09	KMT	2.00		
Cadmium	ug/L	ND	01/09/09	KMT	2.50		
Chromium	ug/L	ND	01/09/09	KMT	50.0		
Copper	ug/L	ND	01/09/09	KMT	25.0		
Lead	ug/L	ND	01/09/09	KMT	5.00		
Nickel	ug/L	ND	01/09/09	KMT	25.0		
Selenium	ug/L	ND	01/09/09	KMT	25.0		
Silver	ug/L	ND	01/09/09	KMT	2.50		
Thallium	ug/L	ND	01/09/09	KMT	1.00		
Zinc	ug/L	ND	01/09/09	KMT	100		

Analytical Method:

SW846 6020

SAMPLES ARE ANALYZED BY ICP/MS

RL = Reporting Limit

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: MW-1

Sample ID : 09B00197

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Antimony	ug/L	10.1	01/09/09	KMT	5.00		
Arsenic	ug/L	2.65	01/09/09	KMT	2.00		
Beryllium	ug/L	ND	01/09/09	KMT	2.00		
Cadmium	ug/L	836	01/09/09	KMT	2.50		
Chromium	ug/L	860	01/09/09	KMT	50.0		
Copper	ug/L	404	01/09/09	KMT	25.0		
Lead	ug/L	65.9	01/09/09	KMT	5.00		
Nickel	ug/L	411	01/09/09	KMT	25.0		
Selenium	ug/L	ND	01/09/09	KMT	25.0		
Silver	ug/L	ND	01/09/09	KMT	2.50		
Thallium	ug/L	ND	01/09/09	KMT	1.00		
Zinc	ug/L	1780	01/09/09	KMT	100		

Analytical Method:

SW846 6020

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860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: MW-1 DUP

Sample ID : 09B00198

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Antimony	ug/L	9.44	01/09/09	KMT	5.00		
Arsenic	ug/L	2.40	01/09/09	KMT	2.00		
Beryllium	ug/L	ND	01/09/09	KMT	2.00		
Cadmium	ug/L	831	01/09/09	KMT	2.50		
Chromium	ug/L	821	01/09/09	KMT	50.0		
Copper	ug/L	430	01/09/09	KMT	25.0		
Lead	ug/L	78.2	01/09/09	KMT	5.00		
Nickel	ug/L	405	01/09/09	KMT	25.0		
Selenium	ug/L	ND	01/09/09	KMT	25.0		
Silver	ug/L	ND	01/09/09	KMT	2.50		
Thallium	ug/L	ND	01/09/09	KMT	1.00		
Zinc	ug/L	1870	01/09/09	KMT	100		

Analytical Method:

SW846 6020

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1/13/2009  
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Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT  
Date Received: 1/6/2009

LIMS-BAT #: LIMIT-22446  
Job Number: 60045450

Field Sample #: EB

Sample ID: 09B00196      ‡Sampled: 1/6/2009  
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/l	ND	01/09/09	LBD	5.0		
Acrylonitrile	ug/l	ND	01/09/09	LBD	2.0		
tert-Amylmethyl Ether	ug/l	ND	01/09/09	LBD	0.5		
Benzene	ug/l	ND	01/09/09	LBD	0.5		
Bromobenzene	ug/l	ND	01/09/09	LBD	0.5		
Bromochloromethane	ug/l	ND	01/09/09	LBD	0.5		
Bromodichloromethane	ug/l	ND	01/09/09	LBD	0.5		
Bromoform	ug/l	ND	01/09/09	LBD	3.0		
Bromomethane	ug/l	ND	01/09/09	LBD	5.0		
2-Butanone (MEK)	ug/l	ND	01/09/09	LBD	2.0		
tert-Butyl Alcohol	ug/l	ND	01/09/09	LBD	5.0		
n-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5		
sec-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5		
tert-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5		
tert-Butylethyl Ether	ug/l	ND	01/09/09	LBD	0.5		
Carbon Disulfide	ug/l	ND	01/09/09	LBD	0.5		
Carbon Tetrachloride	ug/l	ND	01/09/09	LBD	0.5		
Chlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
Chlorodibromomethane	ug/l	ND	01/09/09	LBD	2.0		
Chloroethane	ug/l	ND	01/09/09	LBD	0.5		
Chloroform	ug/l	9.0	01/09/09	LBD	0.5		
Chloromethane	ug/l	ND	01/09/09	LBD	4.0		
2-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5		
4-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dibromo-3-Chloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dibromoethane	ug/l	ND	01/09/09	LBD	0.50		
Dibromomethane	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
1,3-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		

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METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: EB

Sample ID: 09B00196

‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,4-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
trans-1,4-Dichloro-2-Butene	ug/l	ND	01/09/09	LBD	1.0		
Dichlorodifluoromethane	ug/l	ND	01/09/09	LBD	0.5		
1,1-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5		
1,1-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
cis-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
trans-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,3-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5		
2,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,1-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5		
cis-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5		
trans-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5		
Diethyl Ether	ug/l	ND	01/09/09	LBD	0.5		
Diisopropyl Ether	ug/l	ND	01/09/09	LBD	0.5		
1,4-Dioxane	ug/l	ND	01/09/09	LBD	50.0		
Ethyl Benzene	ug/l	ND	01/09/09	LBD	0.5		
Hexachlorobutadiene	ug/l	ND	01/09/09	LBD	0.4		
2-Hexanone	ug/l	ND	01/09/09	LBD	2.0		
Isopropylbenzene	ug/l	ND	01/09/09	LBD	0.5		
p-Isopropyltoluene	ug/l	ND	01/09/09	LBD	0.5		
MTBE	ug/l	ND	01/09/09	LBD	0.5		
Methylene Chloride	ug/l	ND	01/09/09	LBD	1.0		
MIBK	ug/l	ND	01/09/09	LBD	2.0		
Naphthalene	ug/l	ND	01/09/09	LBD	0.5		
n-Propylbenzene	ug/l	ND	01/09/09	LBD	0.5		
Styrene	ug/l	ND	01/09/09	LBD	0.5		
1,1,1,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5		

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860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: EB

Sample ID: 09B00196

‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,1,2,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5		
Tetrachloroethylene	ug/l	ND	01/09/09	LBD	0.5		
Tetrahydrofuran	ug/l	ND	01/09/09	LBD	5.0		
Toluene	ug/l	ND	01/09/09	LBD	0.5		
1,2,3-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
1,2,4-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
1,3,5-Trichlorobenzene	ug/l	ND	01/09/09	LBD	1.0		
1,1,1-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5		
1,1,2-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5		
Trichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
Trichlorofluoromethane	ug/l	ND	01/09/09	LBD	0.5		
1,2,3-Trichloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	01/09/09	LBD	0.5		
1,2,4-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5		
1,3,5-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5		
Vinyl Chloride	ug/l	ND	01/09/09	LBD	0.5		
m + p Xylene	ug/l	ND	01/09/09	LBD	1.0		
o-Xylene	ug/l	ND	01/09/09	LBD	0.5		

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE &amp; TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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CHRIS SHORES  
METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
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1/13/2009  
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Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT  
Date Received: 1/6/2009

LIMS-BAT #: LIMIT-22446  
Job Number: 60045450

Field Sample #: MW-1

Sample ID: 09B00194      ‡Sampled: 1/6/2009  
Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/l	ND	01/09/09	LBD	5.0		
Acrylonitrile	ug/l	ND	01/09/09	LBD	2.0		
tert-Amylmethyl Ether	ug/l	ND	01/09/09	LBD	0.5		
Benzene	ug/l	ND	01/09/09	LBD	0.5		
Bromobenzene	ug/l	ND	01/09/09	LBD	0.5		
Bromochloromethane	ug/l	ND	01/09/09	LBD	0.5		
Bromodichloromethane	ug/l	ND	01/09/09	LBD	0.5		
Bromoform	ug/l	ND	01/09/09	LBD	3.0		
Bromomethane	ug/l	ND	01/09/09	LBD	5.0		
2-Butanone (MEK)	ug/l	ND	01/09/09	LBD	2.0		
tert-Butyl Alcohol	ug/l	ND	01/09/09	LBD	5.0		
n-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5		
sec-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5		
tert-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5		
tert-Butylethyl Ether	ug/l	ND	01/09/09	LBD	0.5		
Carbon Disulfide	ug/l	ND	01/09/09	LBD	0.5		
Carbon Tetrachloride	ug/l	ND	01/09/09	LBD	0.5		
Chlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
Chlorodibromomethane	ug/l	ND	01/09/09	LBD	2.0		
Chloroethane	ug/l	ND	01/09/09	LBD	0.5		
Chloroform	ug/l	1.2	01/09/09	LBD	0.5		
Chloromethane	ug/l	ND	01/09/09	LBD	4.0		
2-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5		
4-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dibromo-3-Chloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dibromoethane	ug/l	ND	01/09/09	LBD	0.50		
Dibromomethane	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
1,3-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: MW-1

Sample ID: 09B00194

‡Sampled: 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,4-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
trans-1,4-Dichloro-2-Butene	ug/l	ND	01/09/09	LBD	1.0		
Dichlorodifluoromethane	ug/l	ND	01/09/09	LBD	0.5		
1,1-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5		
1,1-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
cis-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
trans-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,3-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5		
2,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,1-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5		
cis-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5		
trans-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5		
Diethyl Ether	ug/l	ND	01/09/09	LBD	0.5		
Diisopropyl Ether	ug/l	ND	01/09/09	LBD	0.5		
1,4-Dioxane	ug/l	ND	01/09/09	LBD	50.0		
Ethyl Benzene	ug/l	ND	01/09/09	LBD	0.5		
Hexachlorobutadiene	ug/l	ND	01/09/09	LBD	0.4		
2-Hexanone	ug/l	ND	01/09/09	LBD	2.0		
Isopropylbenzene	ug/l	ND	01/09/09	LBD	0.5		
p-Isopropyltoluene	ug/l	ND	01/09/09	LBD	0.5		
MTBE	ug/l	ND	01/09/09	LBD	0.5		
Methylene Chloride	ug/l	ND	01/09/09	LBD	1.0		
MIBK	ug/l	ND	01/09/09	LBD	2.0		
Naphthalene	ug/l	ND	01/09/09	LBD	0.5		
n-Propylbenzene	ug/l	ND	01/09/09	LBD	0.5		
Styrene	ug/l	ND	01/09/09	LBD	0.5		
1,1,1,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5		

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: MW-1

Sample ID: 09B00194

‡Sampled: 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,1,2,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5		
Tetrachloroethylene	ug/l	ND	01/09/09	LBD	0.5		
Tetrahydrofuran	ug/l	ND	01/09/09	LBD	5.0		
Toluene	ug/l	ND	01/09/09	LBD	0.5		
1,2,3-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
1,2,4-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
1,3,5-Trichlorobenzene	ug/l	ND	01/09/09	LBD	1.0		
1,1,1-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5		
1,1,2-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5		
Trichloroethylene	ug/l	1.3	01/09/09	LBD	0.5		
Trichlorofluoromethane	ug/l	ND	01/09/09	LBD	0.5		
1,2,3-Trichloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	01/09/09	LBD	0.5		
1,2,4-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5		
1,3,5-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5		
Vinyl Chloride	ug/l	ND	01/09/09	LBD	0.5		
m + p Xylene	ug/l	ND	01/09/09	LBD	1.0		
o-Xylene	ug/l	ND	01/09/09	LBD	0.5		

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE &amp; TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

RL = Reporting Limit

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: MW-1 DUP

Sample ID: 09B00195

‡Sampled: 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/l	ND	01/12/09	LBD	5.0		
Acrylonitrile	ug/l	ND	01/12/09	LBD	2.0		
tert-Amylmethyl Ether	ug/l	ND	01/12/09	LBD	0.5		
Benzene	ug/l	ND	01/12/09	LBD	0.5		
Bromobenzene	ug/l	ND	01/12/09	LBD	0.5		
Bromochloromethane	ug/l	ND	01/12/09	LBD	0.5		
Bromodichloromethane	ug/l	ND	01/12/09	LBD	0.5		
Bromoform	ug/l	ND	01/12/09	LBD	3.0		
Bromomethane	ug/l	ND	01/12/09	LBD	5.0		
2-Butanone (MEK)	ug/l	ND	01/12/09	LBD	2.0		
tert-Butyl Alcohol	ug/l	ND	01/12/09	LBD	5.0		
n-Butylbenzene	ug/l	ND	01/12/09	LBD	0.5		
sec-Butylbenzene	ug/l	ND	01/12/09	LBD	0.5		
tert-Butylbenzene	ug/l	ND	01/12/09	LBD	0.5		
tert-Butylethyl Ether	ug/l	ND	01/12/09	LBD	0.5		
Carbon Disulfide	ug/l	ND	01/12/09	LBD	0.5		
Carbon Tetrachloride	ug/l	ND	01/12/09	LBD	0.5		
Chlorobenzene	ug/l	ND	01/12/09	LBD	0.5		
Chlorodibromomethane	ug/l	ND	01/12/09	LBD	2.0		
Chloroethane	ug/l	ND	01/12/09	LBD	0.5		
Chloroform	ug/l	1.2	01/12/09	LBD	0.5		
Chloromethane	ug/l	ND	01/12/09	LBD	4.0		
2-Chlorotoluene	ug/l	ND	01/12/09	LBD	0.5		
4-Chlorotoluene	ug/l	ND	01/12/09	LBD	0.5		
1,2-Dibromo-3-Chloropropane	ug/l	ND	01/12/09	LBD	0.5		
1,2-Dibromoethane	ug/l	ND	01/12/09	LBD	0.50		
Dibromomethane	ug/l	ND	01/12/09	LBD	0.5		
1,2-Dichlorobenzene	ug/l	ND	01/12/09	LBD	0.5		
1,3-Dichlorobenzene	ug/l	ND	01/12/09	LBD	0.5		

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: MW-1 DUP

Sample ID: 09B00195

‡Sampled: 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,4-Dichlorobenzene	ug/l	ND	01/12/09	LBD	0.5		
trans-1,4-Dichloro-2-Butene	ug/l	ND	01/12/09	LBD	1.0		
Dichlorodifluoromethane	ug/l	ND	01/12/09	LBD	0.5		
1,1-Dichloroethane	ug/l	ND	01/12/09	LBD	0.5		
1,2-Dichloroethane	ug/l	ND	01/12/09	LBD	0.5		
1,1-Dichloroethylene	ug/l	ND	01/12/09	LBD	0.5		
cis-1,2-Dichloroethylene	ug/l	ND	01/12/09	LBD	0.5		
trans-1,2-Dichloroethylene	ug/l	ND	01/12/09	LBD	0.5		
1,2-Dichloropropane	ug/l	ND	01/12/09	LBD	0.5		
1,3-Dichloropropane	ug/l	ND	01/12/09	LBD	0.5		
2,2-Dichloropropane	ug/l	ND	01/12/09	LBD	0.5		
1,1-Dichloropropene	ug/l	ND	01/12/09	LBD	0.5		
cis-1,3-Dichloropropene	ug/l	ND	01/12/09	LBD	0.5		
trans-1,3-Dichloropropene	ug/l	ND	01/12/09	LBD	0.5		
Diethyl Ether	ug/l	ND	01/12/09	LBD	0.5		
Diisopropyl Ether	ug/l	ND	01/12/09	LBD	0.5		
1,4-Dioxane	ug/l	ND	01/12/09	LBD	50.0		
Ethyl Benzene	ug/l	ND	01/12/09	LBD	0.5		
Hexachlorobutadiene	ug/l	ND	01/12/09	LBD	0.4		
2-Hexanone	ug/l	ND	01/12/09	LBD	2.0		
Isopropylbenzene	ug/l	ND	01/12/09	LBD	0.5		
p-Isopropyltoluene	ug/l	ND	01/12/09	LBD	0.5		
MTBE	ug/l	ND	01/12/09	LBD	0.5		
Methylene Chloride	ug/l	ND	01/12/09	LBD	1.0		
MIBK	ug/l	ND	01/12/09	LBD	2.0		
Naphthalene	ug/l	ND	01/12/09	LBD	0.5		
n-Propylbenzene	ug/l	ND	01/12/09	LBD	0.5		
Styrene	ug/l	ND	01/12/09	LBD	0.5		
1,1,1,2-Tetrachloroethane	ug/l	ND	01/12/09	LBD	0.5		

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: MW-1 DUP

Sample ID: 09B00195

‡Sampled: 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,1,2,2-Tetrachloroethane	ug/l	ND	01/12/09	LBD	0.5		
Tetrachloroethylene	ug/l	ND	01/12/09	LBD	0.5		
Tetrahydrofuran	ug/l	ND	01/12/09	LBD	5.0		
Toluene	ug/l	ND	01/12/09	LBD	0.5		
1,2,3-Trichlorobenzene	ug/l	ND	01/12/09	LBD	0.5		
1,2,4-Trichlorobenzene	ug/l	ND	01/12/09	LBD	0.5		
1,3,5-Trichlorobenzene	ug/l	ND	01/12/09	LBD	1.0		
1,1,1-Trichloroethane	ug/l	ND	01/12/09	LBD	0.5		
1,1,2-Trichloroethane	ug/l	ND	01/12/09	LBD	0.5		
Trichloroethylene	ug/l	1.1	01/12/09	LBD	0.5		
Trichlorofluoromethane	ug/l	ND	01/12/09	LBD	0.5		
1,2,3-Trichloropropane	ug/l	ND	01/12/09	LBD	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	01/12/09	LBD	0.5		
1,2,4-Trimethylbenzene	ug/l	ND	01/12/09	LBD	0.5		
1,3,5-Trimethylbenzene	ug/l	ND	01/12/09	LBD	0.5		
Vinyl Chloride	ug/l	ND	01/12/09	LBD	0.5		
m + p Xylene	ug/l	ND	01/12/09	LBD	1.0		
o-Xylene	ug/l	ND	01/12/09	LBD	0.5		

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE &amp; TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: TRIP BLANK

Sample ID: 09B00199

‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/l	ND	01/09/09	LBD	5.0		
Acrylonitrile	ug/l	ND	01/09/09	LBD	2.0		
tert-Amylmethyl Ether	ug/l	ND	01/09/09	LBD	0.5		
Benzene	ug/l	ND	01/09/09	LBD	0.5		
Bromobenzene	ug/l	ND	01/09/09	LBD	0.5		
Bromochloromethane	ug/l	ND	01/09/09	LBD	0.5		
Bromodichloromethane	ug/l	ND	01/09/09	LBD	0.5		
Bromoform	ug/l	ND	01/09/09	LBD	3.0		
Bromomethane	ug/l	ND	01/09/09	LBD	5.0		
2-Butanone (MEK)	ug/l	ND	01/09/09	LBD	2.0		
tert-Butyl Alcohol	ug/l	ND	01/09/09	LBD	5.0		
n-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5		
sec-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5		
tert-Butylbenzene	ug/l	ND	01/09/09	LBD	0.5		
tert-Butylethyl Ether	ug/l	ND	01/09/09	LBD	0.5		
Carbon Disulfide	ug/l	ND	01/09/09	LBD	0.5		
Carbon Tetrachloride	ug/l	ND	01/09/09	LBD	0.5		
Chlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
Chlorodibromomethane	ug/l	ND	01/09/09	LBD	2.0		
Chloroethane	ug/l	ND	01/09/09	LBD	0.5		
Chloroform	ug/l	4.2	01/09/09	LBD	0.5		
Chloromethane	ug/l	ND	01/09/09	LBD	4.0		
2-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5		
4-Chlorotoluene	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dibromo-3-Chloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dibromoethane	ug/l	ND	01/09/09	LBD	0.50		
Dibromomethane	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
1,3-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: TRIP BLANK

Sample ID: 09B00199

‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,4-Dichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
trans-1,4-Dichloro-2-Butene	ug/l	ND	01/09/09	LBD	1.0		
Dichlorodifluoromethane	ug/l	ND	01/09/09	LBD	0.5		
1,1-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dichloroethane	ug/l	ND	01/09/09	LBD	0.5		
1,1-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
cis-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
trans-1,2-Dichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
1,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,3-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5		
2,2-Dichloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,1-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5		
cis-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5		
trans-1,3-Dichloropropene	ug/l	ND	01/09/09	LBD	0.5		
Diethyl Ether	ug/l	ND	01/09/09	LBD	0.5		
Diisopropyl Ether	ug/l	ND	01/09/09	LBD	0.5		
1,4-Dioxane	ug/l	ND	01/09/09	LBD	50.0		
Ethyl Benzene	ug/l	ND	01/09/09	LBD	0.5		
Hexachlorobutadiene	ug/l	ND	01/09/09	LBD	0.4		
2-Hexanone	ug/l	ND	01/09/09	LBD	2.0		
Isopropylbenzene	ug/l	ND	01/09/09	LBD	0.5		
p-Isopropyltoluene	ug/l	ND	01/09/09	LBD	0.5		
MTBE	ug/l	ND	01/09/09	LBD	0.5		
Methylene Chloride	ug/l	ND	01/09/09	LBD	1.0		
MIBK	ug/l	ND	01/09/09	LBD	2.0		
Naphthalene	ug/l	ND	01/09/09	LBD	0.5		
n-Propylbenzene	ug/l	ND	01/09/09	LBD	0.5		
Styrene	ug/l	ND	01/09/09	LBD	0.5		
1,1,1,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5		

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

Field Sample #: TRIP BLANK

Sample ID: 09B00199

‡Sampled: 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
1,1,2,2-Tetrachloroethane	ug/l	ND	01/09/09	LBD	0.5		
Tetrachloroethylene	ug/l	ND	01/09/09	LBD	0.5		
Tetrahydrofuran	ug/l	ND	01/09/09	LBD	5.0		
Toluene	ug/l	ND	01/09/09	LBD	0.5		
1,2,3-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
1,2,4-Trichlorobenzene	ug/l	ND	01/09/09	LBD	0.5		
1,3,5-Trichlorobenzene	ug/l	ND	01/09/09	LBD	1.0		
1,1,1-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5		
1,1,2-Trichloroethane	ug/l	ND	01/09/09	LBD	0.5		
Trichloroethylene	ug/l	ND	01/09/09	LBD	0.5		
Trichlorofluoromethane	ug/l	ND	01/09/09	LBD	0.5		
1,2,3-Trichloropropane	ug/l	ND	01/09/09	LBD	0.5		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	ND	01/09/09	LBD	0.5		
1,2,4-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5		
1,3,5-Trimethylbenzene	ug/l	ND	01/09/09	LBD	0.5		
Vinyl Chloride	ug/l	ND	01/09/09	LBD	0.5		
m + p Xylene	ug/l	ND	01/09/09	LBD	1.0		
o-Xylene	ug/l	ND	01/09/09	LBD	0.5		

Analytical Method:

SW846 8260

SAMPLES ARE CONCENTRATED BY PURGE &amp; TRAP, FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

RL = Reporting Limit

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NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

**Field Sample # : EB**
**Sample ID : \*09B00196** ‡Sampled : 1/6/2009  
Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium (+6)	mg/l	ND	01/06/09	AED	0.004		

**Field Sample # : MW-1**
**Sample ID : \*09B00194** ‡Sampled : 1/6/2009  
Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium (+6)	mg/l	1.02	01/06/09	AED	0.040		

**Field Sample # : MW-1 DUP**
**Sample ID : \*09B00195** ‡Sampled : 1/6/2009  
Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium (+6)	mg/l	1.00	01/06/09	AED	0.040		

Analytical Method:

SM 3500-Cr D/SW-846 7196

COLORIMETRIC DETERMINATION WITH ACIDIC S-DIPHENYLCARBAZIDE

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

**Field Sample # : EB**
**Sample ID : 09B00196**

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Cyanide	mg/l	0.013	01/13/09	VAK	0.010		

**Field Sample # : MW-1**
**Sample ID : 09B00197**

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Cyanide	mg/l	0.197	01/13/09	VAK	0.010		

**Field Sample # : MW-1 DUP**
**Sample ID : 09B00198**

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Cyanide	mg/l	0.214	01/13/09	VAK	0.010		

Analytical Method:

SW846 9014 / SM 4500 CN E

DISTILLATION FOLLOWED BY REACTION WITH CHLORAMINE-T/PYRIDINE-BARBITURIC ACID AND PHOSPHATE BUFFER.

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

**Field Sample # : EB**
**Sample ID : 09B00196**

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Extractable TPH (ETPH)	mg/l	ND	01/07/09	PJG	0.075		

**Field Sample # : MW-1**
**Sample ID : 09B00194**

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Extractable TPH (ETPH)	mg/l	0.831	01/07/09	PJG	0.075		

**Field Sample # : MW-1 DUP**
**Sample ID : 09B00195**

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Extractable TPH (ETPH)	mg/l	0.904	01/07/09	PJG	0.075		

Analytical Method:

Extractable TPH (CT ETPH)

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

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‡ = See attached chain-of-custody record for time sampled

CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

1/13/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22446

Date Received: 1/6/2009

Job Number: 60045450

**Field Sample # : EB**
**Sample ID : 09B00196**

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Mercury	mg/l	ND	01/08/09	KM	0.00010		

**Field Sample # : MW-1**
**Sample ID : 09B00197**

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Mercury	mg/l	0.00017	01/08/09	KM	0.00010		

**Field Sample # : MW-1 DUP**
**Sample ID : 09B00198**

‡Sampled : 1/6/2009

Not Specified

Sample Matrix: GRND WATER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Mercury	mg/l	0.00017	01/08/09	KM	0.00010		

Analytical Method:

EPA 245.1/SW846 7470

COLD VAPOR TECHNIQUE (FLAMELESS ABSORPTION AT 254 NM)

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CHRIS SHORES

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.: 60045450

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

Date Received: 1/6/2009

The following notes were attached to the reported analysis :

1/13/2009

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LIMS-BAT #: LIMIT-22446

Job Number: 60045450

Sample ID: \* 09B00194  
Analysis: Chromium (+6)  
Analyzed at 4:45 PM

Sample ID: \* 09B00195  
Analysis: Chromium (+6)  
Analyzed at 4:45 PM

Sample ID: \* 09B00196  
Analysis: Chromium (+6)  
Sample duplicate = <0.004 mg/L  
Analyzed at 4:45 PM

\*\* END OF REPORT \*\*

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or  
regulatory level for comparison with data to  
determine PASS (P) or FAIL (F) condition of results.

### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/13/2009

Lims Bat # : LIMIT-22446

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QC Batch Number: BATCH-15830

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00197	Silver	Sample Amount	<2.50	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	518.78	ug/L	
		Matrix Spike % Rec.	103.75	%	75-125
	Arsenic	Sample Amount	2.65	ug/L	
		Duplicate Value	<2.00	ug/L	
		Duplicate RPD	>27.9	%	0-20
		Sample Amount	2.65	ug/L	
	Beryllium	Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	517.58	ug/L	
		Matrix Spike % Rec.	102.98	%	75-125
		Sample Amount	<2.00	ug/L	
	Cadmium	Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	437.71	ug/L	
		Matrix Spike % Rec.	87.54	%	75-125
		Sample Amount	836.00	ug/L	
	Chromium	Duplicate Value	850.50	ug/L	
		Duplicate RPD	1.71	%	0-20
		Sample Amount	836.00	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
	Copper	MS Amt Measured	1323.00	ug/L	
		Matrix Spike % Rec.	97.40	%	75-125
		Sample Amount	859.50	ug/L	
		Duplicate Value	837.50	ug/L	
	Nickel	Duplicate RPD	2.59	%	0-20
		Sample Amount	859.50	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	1328.00	ug/L	
		Matrix Spike % Rec.	93.70	%	75-125
		Sample Amount	404.20	ug/L	
		Duplicate Value	409.45	ug/L	
		Duplicate RPD	1.29	%	0-20
		Sample Amount	404.20	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	927.50	ug/L	
		Matrix Spike % Rec.	104.66	%	75-125
		Sample Amount	411.37	ug/L	
		Duplicate Value	411.37	ug/L	
		Duplicate RPD	0.00	%	0-20
		Sample Amount	411.37	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	867.86	ug/L	
		Matrix Spike % Rec.	91.29	%	75-125

### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/13/2009

Lims Bat # : LIMIT-22446

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QC Batch Number: BATCH-15830

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00197	Lead	Sample Amount	65.93	ug/L	
		Duplicate Value	67.46	ug/L	
		Duplicate RPD	2.29	%	0-20
		Sample Amount	65.93	ug/L	
	Antimony	Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	554.95	ug/L	
		Matrix Spike % Rec.	97.80	%	75-125
		Sample Amount	10.05	ug/L	
		Duplicate Value	10.52	ug/L	
		Duplicate RPD	4.60	%	0-20
		Sample Amount	10.05	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
	Selenium	MS Amt Measured	518.54	ug/L	
		Matrix Spike % Rec.	101.69	%	75-125
		Sample Amount	<25.0	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
	Thallium	MS Amt Measured	452.92	ug/L	
		Matrix Spike % Rec.	90.58	%	75-125
		Sample Amount	<1.00	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
	Zinc	MS Amt Measured	465.85	ug/L	
		Matrix Spike % Rec.	93.17	%	75-125
		Sample Amount	1784.00	ug/L	
		Duplicate Value	1930.00	ug/L	
		Duplicate RPD	7.86	%	0-20
		Sample Amount	1784.00	ug/L	
		Matrix Spk Amt Added	500.00	ug/L	
		MS Amt Measured	2351.00	ug/L	
		Matrix Spike % Rec.	113.40	%	75-125
BLANK-128378	Silver	Blank	<2.50	ug/L	
	Arsenic	Blank	<2.00	ug/L	
	Beryllium	Blank	<2.00	ug/L	
	Cadmium	Blank	<2.50	ug/L	
	Chromium	Blank	<50.0	ug/L	
	Copper	Blank	<25.0	ug/L	
	Nickel	Blank	<25.0	ug/L	
	Lead	Blank	<5.00	ug/L	
	Antimony	Blank	<5.00	ug/L	
	Selenium	Blank	<25.0	ug/L	
	Thallium	Blank	<1.00	ug/L	
	Zinc	Blank	<100.	ug/L	

LFBLANK-90406



### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/13/2009

Lims Bat # : LIMIT-22446

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QC Batch Number: BATCH-15830

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90406	Silver	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	522.98	ug/L	
		Lab Fort Blk. % Rec.	104.59	%	80-120
	Arsenic	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	519.38	ug/L	
		Lab Fort Blk. % Rec.	103.87	%	80-120
	Beryllium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	474.21	ug/L	
		Lab Fort Blk. % Rec.	94.84	%	80-120
	Cadmium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	481.79	ug/L	
		Lab Fort Blk. % Rec.	96.35	%	80-120
	Chromium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	473.99	ug/L	
		Lab Fort Blk. % Rec.	94.79	%	80-120
	Copper	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	497.28	ug/L	
		Lab Fort Blk. % Rec.	99.45	%	80-120
	Nickel	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	484.27	ug/L	
		Lab Fort Blk. % Rec.	96.85	%	80-120
	Lead	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	474.35	ug/L	
		Lab Fort Blk. % Rec.	94.87	%	80-120
	Antimony	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	490.04	ug/L	
		Lab Fort Blk. % Rec.	98.00	%	80-120
	Selenium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	474.83	ug/L	
		Lab Fort Blk. % Rec.	94.96	%	80-120
	Thallium	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	464.18	ug/L	
		Lab Fort Blk. % Rec.	92.83	%	80-120
	Zinc	Lab Fort Blank Amt.	500.00	ug/L	
		Lab Fort Blk. Found	575.66	ug/L	
		Lab Fort Blk. % Rec.	115.13	%	80-120

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/13/2009

Lims Bat # : LIMIT-22446

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QC Batch Number: CYANIDE-3176

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128432					
	Cyanide	Blank	<0.010	mg/l	
LFBLANK-90468					
	Cyanide	Lab Fort Blank Amt.	0.744	mg/l	
		Lab Fort Blk. Found	0.643	mg/l	
		Lab Fort Blk. % Rec.	86.424	%	
STDADD-35147					
	Cyanide	Standard Measured	0.346	mg/l	
		Standard Amt Added	0.383	mg/l	
		Standard % Recovery	90.339	%	80-120

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/13/2009

Lims Bat # : LIMIT-22446

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QC Batch Number: GC/FID-22911

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00194	Terphenyl	Surrogate Recovery	66.7	%	50-150
09B00195	Terphenyl	Surrogate Recovery	76.2	%	50-150
09B00196	Terphenyl	Surrogate Recovery	86.1	%	50-150
BLANK-128341	Extractable TPH (ETPH)	Blank	<0.075	mg/l	
LFBLANK-90358	Extractable TPH (ETPH)	Lab Fort Blank Amt.	1.000	mg/l	
		Lab Fort Blk. Found	0.668	mg/l	
		Lab Fort Blk. % Rec.	66.800	%	60-120
		Dup Lab Fort Bl Amt.	1.000	mg/l	
		Dup Lab Fort Bl. Fnd	0.654	mg/l	
		Dup Lab Fort Bl %Rec	65.459	%	
		Lab Fort Blank Range	1.340	units	
		Lab Fort Bl. Av. Rec	66.129	%	
		LFB Duplicate RPD	2.026	%	

### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/13/2009

Lims Bat # : LIMIT-22446

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QC Batch Number: GCMS/VOL-21293

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00194	1,2-Dichloroethane-d4	Surrogate Recovery	93.6	%	70-130
	Toluene-d8	Surrogate Recovery	100.1	%	70-130
	Bromofluorobenzene	Surrogate Recovery	97.8	%	70-130
09B00196	1,2-Dichloroethane-d4	Surrogate Recovery	92.0	%	70-130
	Toluene-d8	Surrogate Recovery	97.8	%	70-130
	Bromofluorobenzene	Surrogate Recovery	98.0	%	70-130
09B00199	1,2-Dichloroethane-d4	Surrogate Recovery	95.1	%	70-130
	Toluene-d8	Surrogate Recovery	98.8	%	70-130
	Bromofluorobenzene	Surrogate Recovery	98.6	%	70-130
BLANK-128420	Acetone	Blank	<5.0	ug/l	
	Benzene	Blank	<0.5	ug/l	
	Carbon Tetrachloride	Blank	<0.5	ug/l	
	Chloroform	Blank	0.6	ug/l	
	1,2-Dichloroethane	Blank	<0.5	ug/l	
	1,4-Dichlorobenzene	Blank	<0.5	ug/l	
	Ethyl Benzene	Blank	<0.5	ug/l	
	2-Butanone (MEK)	Blank	<2.0	ug/l	
	MIBK	Blank	<2.0	ug/l	
	Naphthalene	Blank	<0.5	ug/l	
	Styrene	Blank	<0.5	ug/l	
	Tetrachloroethylene	Blank	<0.5	ug/l	
	Toluene	Blank	<0.5	ug/l	
	1,1,1-Trichloroethane	Blank	<0.5	ug/l	
	Trichloroethylene	Blank	<0.5	ug/l	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.5	ug/l	
	Trichlorofluoromethane	Blank	<0.5	ug/l	
	o-Xylene	Blank	<0.5	ug/l	
	m + p Xylene	Blank	<1.0	ug/l	
	1,2-Dichlorobenzene	Blank	<0.5	ug/l	
	1,3-Dichlorobenzene	Blank	<0.5	ug/l	
	1,1-Dichloroethane	Blank	<0.5	ug/l	
	1,1-Dichloroethylene	Blank	<0.5	ug/l	
	1,4-Dioxane	Blank	<50.0	ug/l	
	MTBE	Blank	<0.5	ug/l	
	trans-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	Vinyl Chloride	Blank	<0.5	ug/l	
	Methylene Chloride	Blank	<1.0	ug/l	
	Chlorobenzene	Blank	<0.5	ug/l	
	Chloromethane	Blank	<4.0	ug/l	
	Bromomethane	Blank	<5.0	ug/l	

**QC SUMMARY REPORT**

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/13/2009

Lims Bat # : LIMIT-22446

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QC Batch Number: GCMS/VOL-21293

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128420					
	Chloroethane	Blank	<0.5	ug/l	
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l	
	trans-1,3-Dichloropropene	Blank	<0.5	ug/l	
	Chlorodibromomethane	Blank	<2.0	ug/l	
	1,1,2-Trichloroethane	Blank	<0.5	ug/l	
	Bromoform	Blank	<3.0	ug/l	
	1,1,2,2-Tetrachloroethane	Blank	<0.5	ug/l	
	2-Chlorotoluene	Blank	<0.5	ug/l	
	Hexachlorobutadiene	Blank	<0.4	ug/l	
	Isopropylbenzene	Blank	<0.5	ug/l	
	p-Isopropyltoluene	Blank	<0.5	ug/l	
	n-Propylbenzene	Blank	<0.5	ug/l	
	sec-Butylbenzene	Blank	<0.5	ug/l	
	tert-Butylbenzene	Blank	<0.5	ug/l	
	1,2,3-Trichlorobenzene	Blank	<0.5	ug/l	
	1,2,4-Trichlorobenzene	Blank	<0.5	ug/l	
	1,2,4-Trimethylbenzene	Blank	<0.5	ug/l	
	1,3,5-Trimethylbenzene	Blank	<0.5	ug/l	
	Dibromomethane	Blank	<0.5	ug/l	
	cis-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	4-Chlorotoluene	Blank	<0.5	ug/l	
	1,1-Dichloropropene	Blank	<0.5	ug/l	
	1,2-Dichloropropane	Blank	<0.5	ug/l	
	1,3-Dichloropropane	Blank	<0.5	ug/l	
	2,2-Dichloropropane	Blank	<0.5	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<0.5	ug/l	
	1,2,3-Trichloropropane	Blank	<0.5	ug/l	
	n-Butylbenzene	Blank	<0.5	ug/l	
	Dichlorodifluoromethane	Blank	<0.5	ug/l	
	Bromochloromethane	Blank	<0.5	ug/l	
	Bromobenzene	Blank	<0.5	ug/l	
	Acrylonitrile	Blank	<2.0	ug/l	
	Carbon Disulfide	Blank	<0.5	ug/l	
	2-Hexanone	Blank	<2.0	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<1.0	ug/l	
	Diethyl Ether	Blank	<0.5	ug/l	
	Bromodichloromethane	Blank	<0.5	ug/l	
	1,2-Dibromo-3-Chloropropane	Blank	<0.5	ug/l	
	1,2-Dibromoethane	Blank	<0.50	ug/l	
	Tetrahydrofuran	Blank	<5.0	ug/l	
	tert-Butyl Alcohol	Blank	<5.0	ug/l	
	Diisopropyl Ether	Blank	<0.5	ug/l	
	tert-Butylethyl Ether	Blank	<0.5	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128420	tert-Amylmethyl Ether	Blank	<0.5	ug/l	
	1,3,5-Trichlorobenzene	Blank	<1.0	ug/l	
LFBLANK-90457	Acetone	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	77.3	ug/l	
		Lab Fort Blk. % Rec.	77.3	%	70-160
	Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.8	ug/l	
		Lab Fort Blk. % Rec.	88.8	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.4	%	70-130
	Chloroform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.1	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.9	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.7	%	70-130
	Ethyl Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.3	%	70-130
	2-Butanone (MEK)	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	84.5	ug/l	
		Lab Fort Blk. % Rec.	84.5	%	40-160
	MIBK	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	91.1	ug/l	
		Lab Fort Blk. % Rec.	91.1	%	70-160
	Naphthalene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	7.4	ug/l	
		Lab Fort Blk. % Rec.	74.7	%	40-130
	Styrene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.0	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.3	ug/l	
		Lab Fort Blk. % Rec.	103.1	%	70-160
	Toluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.2	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90457					
	1,1,1-Trichloroethane	Lab Fort Blk. Found	9.4	ug/l	70-130
		Lab Fort Blk. % Rec.	94.4	%	
	Trichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.6	ug/l	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blk. % Rec.	96.7	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.3	ug/l	70-130
		Lab Fort Blk. % Rec.	103.1	%	
	Trichlorofluoromethane	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.2	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	o-Xylene	Lab Fort Blk. Found	9.8	ug/l	70-130
		Lab Fort Blk. % Rec.	98.5	%	
	m + p Xylene	Lab Fort Blank Amt.	20.0	ug/l	70-130
		Lab Fort Blk. Found	19.7	ug/l	
		Lab Fort Blk. % Rec.	98.9	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	1,2-Dichlorobenzene	Lab Fort Blk. Found	9.6	ug/l	70-130
		Lab Fort Blk. % Rec.	96.1	%	
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.7	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	1,1-Dichloroethane	Lab Fort Blk. Found	9.3	ug/l	70-130
		Lab Fort Blk. % Rec.	93.4	%	
	1,1-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.8	%	70-130
		Lab Fort Blank Amt.	100.0	ug/l	
	1,4-Dioxane	Lab Fort Blk. Found	88.0	ug/l	40-130
		Lab Fort Blk. % Rec.	88.0	%	
	MTBE	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	8.5	ug/l	
		Lab Fort Blk. % Rec.	85.0	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	trans-1,2-Dichloroethylene	Lab Fort Blk. Found	7.8	ug/l	70-130
		Lab Fort Blk. % Rec.	78.0	%	
	Vinyl Chloride	Lab Fort Blank Amt.	10.0	ug/l	40-160
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.0	%	40-160
		Lab Fort Blank Amt.	10.0	ug/l	
	Methylene Chloride	Lab Fort Blk. Found	9.5	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90457					
	Methylene Chloride	Lab Fort Blk. % Rec.	95.7	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.4	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	3.5	ug/l	
		Lab Fort Blk. % Rec.	35.2	%	40-160
	Bromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.1	ug/l	
		Lab Fort Blk. % Rec.	111.7	%	40-160
	Chloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.1	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.1	ug/l	
		Lab Fort Blk. % Rec.	91.3	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.4	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.5	ug/l	
		Lab Fort Blk. % Rec.	85.7	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.8	%	70-130
	Bromoform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.5	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.0	%	70-130
	2-Chlorotoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.7	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	7.7	ug/l	
		Lab Fort Blk. % Rec.	77.2	%	70-130
	Isopropylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	11.1	ug/l	
		Lab Fort Blk. % Rec.	111.1	%	70-130
	p-Isopropyltoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.8	%	70-130



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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90457					
n-Propylbenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.2	%	
sec-Butylbenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.2	%	
tert-Butylbenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.3	%	
1,2,3-Trichlorobenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.9	%	
1,2,4-Trichlorobenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	6.8	ug/l	
		Lab Fort Blk. % Rec.	68.2	%	
1,2,4-Trimethylbenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.3	%	
1,3,5-Trimethylbenzene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.9	%	
Dibromomethane		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.3	%	
cis-1,2-Dichloroethylene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	8.7	ug/l	
		Lab Fort Blk. % Rec.	87.6	%	
4-Chlorotoluene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.6	%	
1,1-Dichloropropene		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.0	%	
1,2-Dichloropropane		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.9	%	
1,3-Dichloropropane		Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.1	ug/l	
		Lab Fort Blk. % Rec.	91.8	%	
2,2-Dichloropropane		Lab Fort Blank Amt.	10.0	ug/l	40-130
		Lab Fort Blk. Found	7.0	ug/l	
		Lab Fort Blk. % Rec.	70.1	%	
1,1,1,2-Tetrachloroethane		Lab Fort Blank Amt.	10.0	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90457	1,1,1,2-Tetrachloroethane	Lab Fort Blk. Found	10.4	ug/l	70-130
		Lab Fort Blk. % Rec.	104.9	%	
	1,2,3-Trichloropropane	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.2	ug/l	
	n-Butylbenzene	Lab Fort Blk. % Rec.	92.5	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	70-130
		Lab Fort Blk. % Rec.	92.6	%	
	Dichlorodifluoromethane	Lab Fort Blank Amt.	10.0	ug/l	40-160
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.6	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	Bromochloromethane	Lab Fort Blk. Found	9.4	ug/l	70-130
		Lab Fort Blk. % Rec.	94.2	%	
	Bromobenzene	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.4	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	Acrylonitrile	Lab Fort Blk. Found	7.6	ug/l	70-130
		Lab Fort Blk. % Rec.	76.7	%	
	Carbon Disulfide	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.5	%	70-130
		Lab Fort Blank Amt.	100.0	ug/l	
	2-Hexanone	Lab Fort Blk. Found	88.0	ug/l	70-160
		Lab Fort Blk. % Rec.	88.0	%	
	trans-1,4-Dichloro-2-Butene	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	8.2	ug/l	
		Lab Fort Blk. % Rec.	82.4	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	Diethyl Ether	Lab Fort Blk. Found	10.4	ug/l	70-130
		Lab Fort Blk. % Rec.	104.4	%	
	Bromodichloromethane	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.2	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	1,2-Dibromo-3-Chloropropane	Lab Fort Blk. Found	8.1	ug/l	70-130
		Lab Fort Blk. % Rec.	81.9	%	
	1,2-Dibromoethane	Lab Fort Blank Amt.	10.00	ug/l	70-130
		Lab Fort Blk. Found	9.66	ug/l	
		Lab Fort Blk. % Rec.	96.60	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	Tetrahydrofuran	Lab Fort Blk. Found	8.1	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90457	Tetrahydrofuran	Lab Fort Blk. % Rec.	81.6	%	70-130
		Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	77.0	ug/l	
	Diisopropyl Ether	Lab Fort Blk. % Rec.	77.0	%	40-160
		Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.7	ug/l	
	tert-Butylethyl Ether	Lab Fort Blk. % Rec.	87.1	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.8	ug/l	
	tert-Amylmethyl Ether	Lab Fort Blk. % Rec.	88.5	%	70-160
		Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
	1,3,5-Trichlorobenzene	Lab Fort Blk. % Rec.	92.0	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.2	%	70-130

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00195	1,2-Dichloroethane-d4	Surrogate Recovery	93.0	%	70-130
	Toluene-d8	Surrogate Recovery	100.3	%	70-130
	Bromofluorobenzene	Surrogate Recovery	97.5	%	70-130
BLANK-128422	Acetone	Blank	<5.0	ug/l	
	Benzene	Blank	<0.5	ug/l	
	Carbon Tetrachloride	Blank	<0.5	ug/l	
	Chloroform	Blank	1.1	ug/l	
	1,2-Dichloroethane	Blank	<0.5	ug/l	
	1,4-Dichlorobenzene	Blank	<0.5	ug/l	
	Ethyl Benzene	Blank	<0.5	ug/l	
	2-Butanone (MEK)	Blank	<2.0	ug/l	
	MIBK	Blank	<2.0	ug/l	
	Naphthalene	Blank	<0.5	ug/l	
	Styrene	Blank	<0.5	ug/l	
	Tetrachloroethylene	Blank	<0.5	ug/l	
	Toluene	Blank	<0.5	ug/l	
	1,1,1-Trichloroethane	Blank	<0.5	ug/l	
	Trichloroethylene	Blank	<0.5	ug/l	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.5	ug/l	
	Trichlorofluoromethane	Blank	<0.5	ug/l	
	o-Xylene	Blank	<0.5	ug/l	
	m + p Xylene	Blank	<1.0	ug/l	
	1,2-Dichlorobenzene	Blank	<0.5	ug/l	
	1,3-Dichlorobenzene	Blank	<0.5	ug/l	
	1,1-Dichloroethane	Blank	<0.5	ug/l	
	1,1-Dichloroethylene	Blank	<0.5	ug/l	
	1,4-Dioxane	Blank	<50.0	ug/l	
	MTBE	Blank	<0.5	ug/l	
	trans-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	Vinyl Chloride	Blank	<0.5	ug/l	
	Methylene Chloride	Blank	<1.0	ug/l	
	Chlorobenzene	Blank	<0.5	ug/l	
	Chloromethane	Blank	<4.0	ug/l	
	Bromomethane	Blank	<5.0	ug/l	
	Chloroethane	Blank	<0.5	ug/l	
	cis-1,3-Dichloropropene	Blank	<0.5	ug/l	
	trans-1,3-Dichloropropene	Blank	<0.5	ug/l	
	Chlorodibromomethane	Blank	<2.0	ug/l	
	1,1,2-Trichloroethane	Blank	<0.5	ug/l	
	Bromoform	Blank	<3.0	ug/l	
	1,1,2,2-Tetrachloroethane	Blank	<0.5	ug/l	
	2-Chlorotoluene	Blank	<0.5	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128422					
	Hexachlorobutadiene	Blank	<0.4	ug/l	
	Isopropylbenzene	Blank	<0.5	ug/l	
	p-Isopropyltoluene	Blank	<0.5	ug/l	
	n-Propylbenzene	Blank	<0.5	ug/l	
	sec-Butylbenzene	Blank	<0.5	ug/l	
	tert-Butylbenzene	Blank	<0.5	ug/l	
	1,2,3-Trichlorobenzene	Blank	<0.5	ug/l	
	1,2,4-Trichlorobenzene	Blank	<0.5	ug/l	
	1,2,4-Trimethylbenzene	Blank	<0.5	ug/l	
	1,3,5-Trimethylbenzene	Blank	<0.5	ug/l	
	Dibromomethane	Blank	<0.5	ug/l	
	cis-1,2-Dichloroethylene	Blank	<0.5	ug/l	
	4-Chlorotoluene	Blank	<0.5	ug/l	
	1,1-Dichloropropene	Blank	<0.5	ug/l	
	1,2-Dichloropropane	Blank	<0.5	ug/l	
	1,3-Dichloropropane	Blank	<0.5	ug/l	
	2,2-Dichloropropane	Blank	<0.5	ug/l	
	1,1,1,2-Tetrachloroethane	Blank	<0.5	ug/l	
	1,2,3-Trichloropropane	Blank	<0.5	ug/l	
	n-Butylbenzene	Blank	<0.5	ug/l	
	Dichlorodifluoromethane	Blank	<0.5	ug/l	
	Bromochloromethane	Blank	<0.5	ug/l	
	Bromobenzene	Blank	<0.5	ug/l	
	Acrylonitrile	Blank	<2.0	ug/l	
	Carbon Disulfide	Blank	<0.5	ug/l	
	2-Hexanone	Blank	<2.0	ug/l	
	trans-1,4-Dichloro-2-Butene	Blank	<1.0	ug/l	
	Diethyl Ether	Blank	<0.5	ug/l	
	Bromodichloromethane	Blank	<0.5	ug/l	
	1,2-Dibromo-3-Chloropropane	Blank	<0.5	ug/l	
	1,2-Dibromoethane	Blank	<0.50	ug/l	
	Tetrahydrofuran	Blank	<5.0	ug/l	
	tert-Butyl Alcohol	Blank	<5.0	ug/l	
	Diisopropyl Ether	Blank	<0.5	ug/l	
	tert-Butylethyl Ether	Blank	<0.5	ug/l	
	tert-Amylmethyl Ether	Blank	<0.5	ug/l	
	1,3,5-Trichlorobenzene	Blank	<1.0	ug/l	
LFBLANK-90459					
	Acetone	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	85.4	ug/l	
		Lab Fort Blk. % Rec.	85.4	%	70-160
	Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.8	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90459					
	Benzene	Lab Fort Blk. % Rec.	88.9	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.0	%	70-130
	Chloroform	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.8	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.2	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.7	%	70-130
	Ethyl Benzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.6	%	70-130
	2-Butanone (MEK)	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	88.6	ug/l	
		Lab Fort Blk. % Rec.	88.6	%	40-160
	MIBK	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	92.9	ug/l	
		Lab Fort Blk. % Rec.	92.9	%	70-160
	Naphthalene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	7.0	ug/l	
		Lab Fort Blk. % Rec.	70.0	%	40-130
	Styrene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.1	ug/l	
		Lab Fort Blk. % Rec.	101.6	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	
		Lab Fort Blk. % Rec.	99.9	%	70-160
	Toluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.3	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.3	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.1	ug/l	
		Lab Fort Blk. % Rec.	91.7	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.2	ug/l	
		Lab Fort Blk. % Rec.	102.4	%	70-130

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90459	Trichlorofluoromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.5	%	70-130
	o-Xylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.3	%	70-130
	m + p Xylene	Lab Fort Blank Amt.	20.0	ug/l	
		Lab Fort Blk. Found	19.4	ug/l	
		Lab Fort Blk. % Rec.	97.0	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.0	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.6	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.4	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.6	%	70-130
	1,4-Dioxane	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	84.1	ug/l	
		Lab Fort Blk. % Rec.	84.1	%	40-130
	MTBE	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.8	%	70-130
	trans-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.5	ug/l	
		Lab Fort Blk. % Rec.	85.4	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.3	ug/l	
		Lab Fort Blk. % Rec.	83.9	%	40-160
	Methylene Chloride	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.0	ug/l	
		Lab Fort Blk. % Rec.	90.6	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.6	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	3.8	ug/l	
		Lab Fort Blk. % Rec.	38.7	%	40-160
	Bromomethane	Lab Fort Blank Amt.	10.0	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90459					
	Bromomethane	Lab Fort Blk. Found	9.8	ug/l	40-160
		Lab Fort Blk. % Rec.	98.5	%	
	Chloroethane	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.2	ug/l	
	cis-1,3-Dichloropropene	Lab Fort Blk. % Rec.	92.7	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.9	ug/l	70-130
		Lab Fort Blk. % Rec.	99.1	%	
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	10.5	ug/l	
		Lab Fort Blk. % Rec.	105.6	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	Chlorodibromomethane	Lab Fort Blk. Found	8.9	ug/l	70-130
		Lab Fort Blk. % Rec.	89.8	%	
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.3	ug/l	
		Lab Fort Blk. % Rec.	93.3	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	Bromoform	Lab Fort Blk. Found	9.9	ug/l	70-130
		Lab Fort Blk. % Rec.	99.3	%	
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.7	ug/l	
		Lab Fort Blk. % Rec.	97.7	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	2-Chlorotoluene	Lab Fort Blk. Found	9.4	ug/l	70-130
		Lab Fort Blk. % Rec.	94.0	%	
	Hexachlorobutadiene	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	7.5	ug/l	
		Lab Fort Blk. % Rec.	75.4	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	Isopropylbenzene	Lab Fort Blk. Found	10.8	ug/l	70-130
		Lab Fort Blk. % Rec.	108.8	%	
	p-Isopropyltoluene	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.7	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	n-Propylbenzene	Lab Fort Blk. Found	9.6	ug/l	70-130
		Lab Fort Blk. % Rec.	96.5	%	
	sec-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	70-130
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.2	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
	tert-Butylbenzene	Lab Fort Blk. Found	9.4	ug/l	



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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90459					
	tert-Butylbenzene	Lab Fort Blk. % Rec.	94.7	%	70-130
	1,2,3-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.7	ug/l	
		Lab Fort Blk. % Rec.	87.9	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	6.4	ug/l	
		Lab Fort Blk. % Rec.	64.3	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.3	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.0	ug/l	
		Lab Fort Blk. % Rec.	100.5	%	70-130
	Dibromomethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.6	%	70-130
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.8	ug/l	
		Lab Fort Blk. % Rec.	88.2	%	70-130
	4-Chlorotoluene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.3	%	70-130
	1,1-Dichloropropene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.2	ug/l	
		Lab Fort Blk. % Rec.	92.1	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.4	ug/l	
		Lab Fort Blk. % Rec.	94.2	%	70-130
	1,3-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.1	ug/l	
		Lab Fort Blk. % Rec.	91.3	%	70-130
	2,2-Dichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.6	%	40-130
	1,1,1,2-Tetrachloroethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.5	ug/l	
		Lab Fort Blk. % Rec.	105.8	%	70-130
	1,2,3-Trichloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.8	ug/l	
		Lab Fort Blk. % Rec.	88.6	%	70-130
	n-Butylbenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.7	%	70-130

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90459					
	Dichlorodifluoromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.5	ug/l	
		Lab Fort Blk. % Rec.	85.5	%	40-160
	Bromochloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.0	%	70-130
	Bromobenzene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.6	%	70-130
	Acrylonitrile	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.4	ug/l	
		Lab Fort Blk. % Rec.	84.8	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	10.4	ug/l	
		Lab Fort Blk. % Rec.	104.3	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	90.5	ug/l	
		Lab Fort Blk. % Rec.	90.5	%	70-160
	trans-1,4-Dichloro-2-Butene	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.1	ug/l	
		Lab Fort Blk. % Rec.	91.2	%	70-130
	Diethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.8	ug/l	
		Lab Fort Blk. % Rec.	98.0	%	70-130
	Bromodichloromethane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
		Lab Fort Blk. % Rec.	95.0	%	70-130
	1,2-Dibromo-3-Chloropropane	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.1	ug/l	
		Lab Fort Blk. % Rec.	91.3	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	10.00	ug/l	
		Lab Fort Blk. Found	9.51	ug/l	
		Lab Fort Blk. % Rec.	95.10	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	8.0	ug/l	
		Lab Fort Blk. % Rec.	80.3	%	70-130
	tert-Butyl Alcohol	Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	75.4	ug/l	
		Lab Fort Blk. % Rec.	75.4	%	40-160
	Diisopropyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.0	ug/l	
		Lab Fort Blk. % Rec.	90.0	%	70-130
	tert-Butylethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-90459	tert-Butylethyl Ether	Lab Fort Blk. Found	9.1	ug/l	
		Lab Fort Blk. % Rec.	91.1	%	70-160
	tert-Amylmethyl Ether	Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.5	ug/l	
	1,3,5-Trichlorobenzene	Lab Fort Blk. % Rec.	95.0	%	70-130
		Lab Fort Blank Amt.	10.0	ug/l	
		Lab Fort Blk. Found	9.6	ug/l	
		Lab Fort Blk. % Rec.	96.7	%	70-130

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QC Batch Number: HG-9766

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-128335					
	Mercury	Blank	<0.00010	mg/l	
LFBLANK-90352					
	Mercury	Lab Fort Blank Amt.	0.00200	mg/l	
		Lab Fort Blk. Found	0.00203	mg/l	
		Lab Fort Blk. % Rec.	101.95000	%	85-115

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QC Batch Number: WETCHEM-14301

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00196	Chromium (+6)	Sample Amount	<0.004	mg/l	
		Matrix Spk Amt Added	0.100	mg/l	
		MS Amt Measured	0.098	mg/l	
		Matrix Spike % Rec.	98.000	%	75-125
		MSD Amount Added	0.100	mg/l	
		MSD Amt Measured	0.096	mg/l	
		MSD % Recovery	96.000	%	
		MSD Range	2.000	units	
		MS Duplicate RPD	2.061	%	0-20
BLANK-128383	Chromium (+6)	Blank	0.004	mg/l	
LFBLANK-90362	Chromium (+6)	Lab Fort Blank Amt.	0.100	mg/l	
		Lab Fort Blk. Found	0.102	mg/l	
		Lab Fort Blk. % Rec.	102.000	%	
STDADD-35140	Chromium (+6)	Standard Measured	0.100	mg/l	
		Standard Amt Added	0.100	mg/l	
		Standard % Recovery	100.000	%	80-120



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#### NOTES:

QC Batch No. : WETCHEM-14301

Sample ID : 09B00196

Analysis : Chromium (+6)

Sample duplicate = <0.004 mg/L

Analyzed at 4:45 PM

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## QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



## REASONABLE CONFIDENCE PROTOCOL

### LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory Client: METCALF & EDDY  
Project Location: 80 HASTINGS ST. BRIDGEPORT Project Number: LIMT-22446  
Laboratory Sample ID(s): 09B00194-09B00199 Sampling Date(s): 1/6/09  
List RCP Methods Used (e.g., 8260, 8270, et cetera) 7196, 6020, ETPH, 9014, 8260, 7470

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>VPH and EPH Methods only</u> : Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature ( $<6^{\circ}\text{C}$ )?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."  
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Edward Denson Position: Technical Director

Printed Name: Edward Denson

Date: 1/13/09

Name of Laboratory: CON-TEST ANALYTICAL LABORATORY

This certification form is to be used for RCP methods only.





Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

# CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR  
EAST LONGMEADOW, MA 01028

Page 1 of 1

Company Name:

M8 E

Telephone: (203) 741 2818

Address:

560 N Main St Ext

Project #

60073450

Attention:

Chas Shores

Project Location:

Bridgport 80 Hastings

Sampled By:

Shores

Proposal Provided? (For Billing purposes)

☐ yes ☐ no

State Form Required?

☐ yes ☐ no

DATA DELIVERY (check one):

☒ FAX ☐ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: chas.shores@con-test.com

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time

Stop Date/Time

Comp-  
osite

Grab

\*Matrix | Conc.  
Code | Code

Field ID

Sample Description

Lab #

Date/Time

Date/Time

Received by: (signature)

Date/Time

Received by: (signature)

Date/Time

Turnaround \*\*

☒ 7-Day

☐ 10-Day

☐ Other

RUSH \*

☐ \*24-Hr ☐ \*48-Hr

☐ \*72-Hr ☐ \*4-Day

\* Require lab approval

Detection Limit Requirements

Regulations? RCRs

Data Enhancement Project/RCR? ☒ Y ☐ N

Special Requirements or DL's:

\*Matrix Code:

☒ GW = groundwater

☐ WW = wastewater

☐ DW = drinking water

\*\*Preservation Codes:

☐ I = Iced

☐ H = HCL

☐ M = Methanol

☐ N = Nitric Acid

☐ S = Sulfuric Acid

☐ B = Sodium bisulfate

☐ O = Other

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

ANALYSIS REQUESTED

VOCs  
ETPH  
HEX CHROM  
PP13  
CANIDC

Client Comments:

# of containers  
\*\*Preservation  
-Cont Code

-Cont Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V=vial

S=summary can

T=teclor bag

O=Other

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified

www.contestlabs.com



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East Longmeadow, MA.  
01028  
P: 413-525-2332  
F: 413-525-6405

## Sample Receipt Checklist

CLIENT NAME: Metcalf+EDDY RECEIVED BY: KD DATE: 1/6/09

1) Was the chain(s) of custody relinquished and signed? Yes No

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No

Temperature °C by Temp blank 4°C Temperature °C by Temp gun \_\_\_\_\_

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any samples "On Hold"? Yes No Stored where: \_\_\_\_\_

7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified Angela Date 1/6 Time 16:30

8) Location where samples are stored: 19B

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

### Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber	<u>5</u>	8 oz clear jar	
500 mL Amber		4 oz clear jar	
250 mL Amber (8oz amber)		2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic	<u>14</u>	Air Cassette	
40 mL Vial - type listed below	<u>12</u>	Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 12 # Methanol \_\_\_\_\_

# Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_ Time and Date Frozen: \_\_\_\_\_

# Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Do all samples have the proper pH: Yes No N/A

pH < 2 = metals pH < 12 = T-CN



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REPORT DATE 1/14/2009

METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492  
ATTN: DANIEL SERMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22477

JOB NUMBER: 60045450.04

PROJECT LOCATION: 80 HASTINGS ST., BRIDGEPORT, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
SB-12	09B00341	SOIL	Not Specified	etph dry weight	
SB-16	09B00342	SOIL	Not Specified	chromium 6 drywt	
SB-16 DUP	09B00348	SOIL	Not Specified	chromium 6 drywt	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - arsenic	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - cd low	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - chromium	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - copper	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - lead icp	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - nickel	
SB-16 DUP	09B00348	SOIL	Not Specified	splp - zinc	
SB-21	09B00343	SOIL	Not Specified	splp - arsenic	
SB-28	09B00344	SOIL	Not Specified	splp - arsenic	
SB-29	09B00345	SOIL	Not Specified	splp - arsenic	
SB-30	09B00346	SOIL	Not Specified	splp - lead icp	
SB-32	09B00347	SOIL	Not Specified	splp - lead icp	



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REPORT DATE 1/14/2009

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CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22477  
JOB NUMBER: 60045450.04

Comments :

LIMS BATCH NO. : LIMIT-22477

#### CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples unless listed below:  
None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at  
4°C +/- 2 degrees as specified on the chain-of-custody form unless listed below:  
All properly preserved

There are no (other) analytical issues which affect the usability of the data.

#### DETAILED CASE NARRATIVE

##### METHOD SW846-7196A SOLID MATRIX - ADDITIONAL DETAILS

All 7196A SOLUBLE matrix spike and matrix spike duplicate recoveries, sample  
duplicate RPDs and MSDRPDs, if requested in this batch were within control limits specified by  
the method and are reported in the QC summary section of this report unless listed below and/or  
otherwise listed in this narrative.

For sample 09B00348 the matrix spike duplicate recovery is outside of control limits, but the matrix spike was within  
control limits. Outlier should be reviewed as a one time anomaly.

All 7196A INSOLUBLE matrix spike recoveries are listed below and are within control limits  
specified by the method unless otherwise specified in this narrative.

SAMPLE NUMBER	INSOLUBLE MATRIX SPIKE RECOVERY
09B00348	74.8 %

All post digestion matrix spikes were within control limits specified by the method unless otherwise  
listed in this narrative.

SAMPLE	POST DIGESTION MATRIX SPIKE RECOVERY
009B00348	119.7 %

Results for required pH and ORP (oxidation reduction potential) measurements for a sample representative  
of the matrix in this batch are listed below:

Sample number tested that is representative of matrix type	pH	ORP
09B00342	6.93	208 MV
09B00343	7.07	197 MV

pH and ORP measurements (are) indicative of reducing conditions in the sample matrix type.

Failing matrix spike recovery data do not warrant reanalysis since reducing conditions are  
present in the sample matrix.

· Reporting limits were raised due to sample dilutions unless indicated below:



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REPORT DATE 1/14/2009

METCALF & EDDY - WALLINGFORD  
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WALLINGFORD, CT 06492  
ATTN: DANIEL SERMET

CONTRACT NUMBER:  
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

#### ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-22477  
JOB NUMBER: 60045450.04

Sample 09B00342 10X  
Sample 09B00348 10X

#### METHOD SW846-6010 - ADDITIONAL DETAILS

A matrix spike performed on sample 09B00345.  
Only As was requested and reported for samples 09B00343, 09B00344, and 09B00345.  
Only As, Cd, Cr, Cu, Pb, Ni and Zn were requested and reported for sample 09B00348.  
Only Pb was requested and reported for samples 09B00346 and 09B00347.

#### CT ETPH METHOD - ADDITIONAL COMMENTS

All CT ETPH samples were analyzed undiluted unless specified below:  
No dilutions were performed.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod Kopyscinski 1/14/09  
SIGNATURE DATE

Tod Kopyscinski  
Air Laboratory Manager

Michael Erickson  
Assistant Laboratory Director

Edward Denson  
Technical Director

Daren Damboragian  
Organics Department Supervisor

\* See end of data tabulation for notes and comments pertaining to this sample

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Purchase Order No.:

1/14/2009

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22477

Date Received: 1/7/2009

Job Number: 60045450.04

**Field Sample # : SB-16**

**Sample ID : 09B00342**

‡Sampled : 12/22/2009

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium (+6)	mg/kg dry wt	12.2	01/13/09	SBP	0.71		
Extraction Date CR+6		1/12/2009	01/13/09	SBP			

**Field Sample # : SB-16 DUP**

**Sample ID : 09B00348**

‡Sampled : 12/22/2009

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium (+6)	mg/kg dry wt	15.0	01/13/09	SBP	0.73		
Extraction Date CR+6		1/12/2009	01/13/09	SBP			

Analytical Method:

SW846 7196

ALKALINE DIGESTION BY SW846 3060A OF SOLID FOLLOWED BY COLORIMETRIC ANALYSIS  
WITH S-DIPHENYLCARBAZIDE.

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1/14/2009

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Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22477

Date Received: 1/7/2009

Job Number: 60045450.04

**Field Sample # : SB-12**

**Sample ID : 09B00341**

‡Sampled : 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Extractable TPH (ETPH)	mg/kg dry weight	110	01/09/09	PJG	59		

Analytical Method:

Extractable TPH (CT ETPH)

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

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Purchase Order No.:

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Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

LIMS-BAT #: LIMIT-22477

Date Received: 1/7/2009

Job Number: 60045450.04

Field Sample #: SB-16 DUP

Sample ID: 09B00348      ‡Sampled: 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/l leachate	ND	01/14/09	OP	0.010	5	P

Field Sample #: SB-21

Sample ID: 09B00343      ‡Sampled: 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/l leachate	ND	01/14/09	OP	0.010	5	P

Field Sample #: SB-28

Sample ID: 09B00344      ‡Sampled: 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/l leachate	ND	01/14/09	OP	0.010	5	P

Field Sample #: SB-29

Sample ID: 09B00345      ‡Sampled: 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/l leachate	ND	01/14/09	OP	0.010	5	P

Analytical Method:  
SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

RL = Reporting Limit

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860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

1/14/2009  
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Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT  
Date Received: 1/7/2009

LIMS-BAT #: LIMIT-22477  
Job Number: 60045450.04

Field Sample #: **SB-16 DUP**

Sample ID : **09B00348**      ‡Sampled : 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo      Hi	P/ F
Cadmium	mg/l leachate	ND	01/14/09	OP	0.005		

Analytical Method:  
SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

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Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT  
Date Received: 1/7/2009

LIMS-BAT #: LIMIT-22477  
Job Number: 60045450.04

Field Sample #: SB-16 DUP

Sample ID : 09B00348      ‡Sampled : 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Chromium	mg/l leachate	0.03	01/14/09	OP	0.01	5	P

Analytical Method:

SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

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860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

1/14/2009  
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Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT  
Date Received: 1/7/2009

LIMS-BAT #: LIMIT-22477  
Job Number: 60045450.04

Field Sample #: **SB-16 DUP**

Sample ID : **09B00348**      ‡Sampled : 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo      Hi	P/ F
Copper	mg/l leachate	ND	01/14/09	OP	0.01		

Analytical Method:  
SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

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Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT  
Date Received: 1/7/2009

LIMS-BAT #: LIMIT-22477  
Job Number: 60045450.04

Field Sample #: SB-16 DUP

Sample ID : 09B00348      ‡Sampled : 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/l leachate	ND	01/14/09	OP	0.015	5	P

Field Sample #: SB-30

Sample ID : 09B00346      ‡Sampled : 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/l leachate	0.059	01/14/09	OP	0.015	5	P

Field Sample #: SB-32

Sample ID : 09B00347      ‡Sampled : 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/l leachate	0.160	01/14/09	OP	0.015	5	P

Analytical Method:  
SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

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1/14/2009  
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Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT  
Date Received: 1/7/2009

LIMS-BAT #: LIMIT-22477  
Job Number: 60045450.04

Field Sample #: SB-16 DUP

Sample ID : 09B00348      ‡Sampled : 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Nickel	mg/l leachate	0.03	01/14/09	OP	0.01		

Analytical Method:  
SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

DANIEL SERMET  
METCALF & EDDY - WALLINGFORD  
860 N. MAIN STREET EXTENSION  
WALLINGFORD, CT 06492

1/14/2009  
Page 9 of 10

Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT  
Date Received: 1/7/2009

LIMS-BAT #: LIMIT-22477  
Job Number: 60045450.04

Field Sample #: SB-16 DUP

Sample ID : 09B00348      ‡Sampled : 12/22/2009  
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Zinc	mg/l leachate	0.02	01/14/09	OP	0.02		

Analytical Method:  
SW 846 1312/6010

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP). SAMPLES ARE LEACHED FOR 16-20 HOURS IN THE APPROPRIATE LEACHING SOLUTION ACCORDING TO SPLP AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY. WATER SAMPLES ARE FILTERED, NOT EXTRACTED.

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

DANIEL SERMET

METCALF &amp; EDDY - WALLINGFORD

860 N. MAIN STREET EXTENSION

WALLINGFORD, CT 06492

Purchase Order No.:

Project Location: 80 HASTINGS ST., BRIDGEPORT, CT

Date Received: 1/7/2009

1/14/2009

Page 10 of 10

LIMS-BAT #: LIMIT-22477

Job Number: 60045450.04

\*\* END OF REPORT \*\*

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

\* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

SPEC LIMIT = a client specified recommended or  
regulatory level for comparison with data to  
determine PASS (P) or FAIL (F) condition of results.



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2009

Lims Bat # : LIMIT-22477

Page 1 of 4

QC Batch Number: GC/FID-22918

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00341	Terphenyl	Surrogate Recovery	63.5	%	50-150
BLANK-128355	Extractable TPH (ETPH)	Blank	<10.	mg/kg dry weig	
LFBLANK-90379	Extractable TPH (ETPH)	Lab Fort Blank Amt.	33.3	mg/kg dry weig	
		Lab Fort Blk. Found	23.8	mg/kg dry weig	
		Lab Fort Blk. % Rec.	71.5	%	60-120
		Dup Lab Fort Bl Amt.	33.3	mg/kg dry weig	
		Dup Lab Fort Bl. Fnd	24.2	mg/kg dry weig	
		Dup Lab Fort Bl %Rec	72.7	%	
		Lab Fort Blank Range	1.1	units	
		Lab Fort Bl. Av. Rec	72.1	%	
		LFB Duplicate RPD	1.6	%	



### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2009

Lims Bat # : LIMIT-22477

Page 2 of 4

QC Batch Number: ICP/TCLP-4636

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00345	Arsenic	Sample Amount	<0.010	mg/l leachate	
		Matrix Spk Amt Added	0.500	mg/l leachate	
		MS Amt Measured	0.537	mg/l leachate	
		Matrix Spike % Rec.	107.580	%	70-130
BLANK-128442	Arsenic	Blank	<0.010	mg/l leachate	
	Cadmium	Blank	<0.005	mg/l leachate	
	Chromium	Blank	<0.01	mg/l leachate	
	Copper	Blank	<0.01	mg/l leachate	
	Nickel	Blank	<0.01	mg/l leachate	
	Lead	Blank	<0.015	mg/l leachate	
	Zinc	Blank	<0.02	mg/l leachate	
LFBLANK-90484	Arsenic	Lab Fort Blank Amt.	0.500	mg/l leachate	
		Lab Fort Blk. Found	0.563	mg/l leachate	
		Lab Fort Blk. % Rec.	112.720	%	80-120
	Cadmium	Lab Fort Blank Amt.	0.500	mg/l leachate	
		Lab Fort Blk. Found	0.508	mg/l leachate	
		Lab Fort Blk. % Rec.	101.700	%	85-115
	Chromium	Lab Fort Blank Amt.	0.50	mg/l leachate	
		Lab Fort Blk. Found	0.52	mg/l leachate	
		Lab Fort Blk. % Rec.	105.60	%	80-120
	Copper	Lab Fort Blank Amt.	0.50	mg/l leachate	
		Lab Fort Blk. Found	0.54	mg/l leachate	
		Lab Fort Blk. % Rec.	108.82	%	80-120
	Nickel	Lab Fort Blank Amt.	0.50	mg/l leachate	
		Lab Fort Blk. Found	0.55	mg/l leachate	
		Lab Fort Blk. % Rec.	110.58	%	80-120
	Lead	Lab Fort Blank Amt.	0.500	mg/l leachate	
		Lab Fort Blk. Found	0.528	mg/l leachate	
		Lab Fort Blk. % Rec.	105.680	%	80-120
	Zinc	Lab Fort Blank Amt.	0.50	mg/l leachate	
		Lab Fort Blk. Found	0.59	mg/l leachate	
		Lab Fort Blk. % Rec.	118.08	%	80-120

# QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2009

Lims Bat # : LIMIT-22477

Page 3 of 4

QC Batch Number: WETCHEM-14309

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B00348	Chromium (+6)	Sample Amount	15.03	mg/kg dry wt	
		Matrix Spk Amt Added	45.67	mg/kg dry wt	
		MS Amt Measured	54.08	mg/kg dry wt	
		Matrix Spike % Rec.	85.50	%	
		MSD Amount Added	45.71	mg/kg dry wt	
		MSD Amt Measured	40.86	mg/kg dry wt	
		MSD % Recovery	56.50	%	
		MSD Range	28.99	units	
		MS Duplicate RPD	27.84	%	
BLANK-128435	Chromium (+6)	Blank	<0.16	mg/kg dry wt	
LFBLANK-90472	Chromium (+6)	Lab Fort Blank Amt.	39.86	mg/kg dry wt	
		Lab Fort Blk. Found	39.82	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.89	%	



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

### QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2009

Lims Bat #: LIMIT-22477

Page 4 of 4

### QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken through all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



## REASONABLE CONFIDENCE PROTOCOL

### LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: METCALFE EDDY

Project Location: 80 HASTINGS ST. BRIDGEPORT Project Number: LIME 22477

Laboratory Sample ID(s): 09B00341-09B00348 Sampling Date(s): 12-22-08

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1312, 6010, 7196, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>VPH and EPH Methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature ( $<6^{\circ}\text{C}$ )?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Tod Kopyscinski Position: Director of Operations

Printed Name: Tod Kopyscinski

Date: 1-14-09

Name of Laboratory: CON-TEST ANALYTICAL LABORATORY

This certification form is to be used for RCP methods only.



INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS  
AIHA, NELAC & WBE/DBE Certified



**con-test**  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

**CHAIN OF CUSTODY RECORD**

39 SPRUCE ST, 2ND FLOOR  
EAST LONGMEADOW, MA 01028

Page 2 of 5

Company Name: WITCHEF & BROS / AECOM

Address: 860 N Main St Apt

Wallingford CT 06492

Attention: Daniel Seracit

Project Location: PAWBIPORT CT

Sampled By: SERACIT

Proposal Provided? (For Billing purposes) ☐ yes ☐ no

State Form Required? ☐ yes ☐ no

Client PO #

Telephone: (203) 741-2839  
Project # 60045450.04

DATA DELIVERY (check one):  
☐ FAX ☐ EMAIL ☒ WEBSITE CLIENT

Fax #:

Email: dan.seracit@aec.com  
Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time Stop Date/Time Comp-oste Grab Matrix Conc. Code Code

ANALYSIS REQUESTED

Arsenic  
VOCs  
PCBs  
PP-17  
ETPH

SPID AS

Client Comments:

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp-oste	Grab	Matrix Conc. Code	Code
	SB-19	50782	12/22/08		X		S	
	SB-20	50783	12/22/08		X		S	
1	SB-21 <del>(X)</del>	50784 00343	12/22/08		X		S	
	SB-22	50785	12/22/08		X		S	
	SB-23	50786	12/22/08		X		S	
	SB-24	50787	12/22/08		X		S	
	SB-25	50788	12/22/08		X		S	
	SB-26	50789	12/22/08		X		S	

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround \*\*

Relinquished by: (signature) [Signature] Date/Time: 12/24/08 10:10

Received by: (signature) [Signature] Date/Time: 12/24/08 10:30

Relinquished by: (signature) [Signature] Date/Time: 12/24/08 10:58

Received by: (signature) [Signature] Date/Time: 12/24/08 10:58

Detection Limit Requirements  
Regulations? CT RSRs  
Lower of RSRs, GADMC  
Data Enhancement Project/RCF? AY ☐ N

Special Requirements or DLs: RCR Required

\*24-Hr ☐ \*48-Hr ☐ \*72-Hr ☐ \*4-Day ☐

\* Require lab approval

\*Matrix Code:

GW = groundwater  
WW = wastewater  
DW = drinking water  
A = air  
S = soil/solid  
SL = sludge  
O = other

\*\*Preservation Codes:

I = Iced X = Na hydroxide  
H = HCL T = Na thiosulfate  
M = Methanol  
N = Nitric Acid  
S = Sulfuric Acid  
B = Sodium bisulfate  
O = Other

\*\*TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified



con-test<sup>®</sup>  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST., 2ND FLOOR  
EAST LONGMEADOW, MA 01028

Page 3 of 5

Company Name: MBT/MF & BROTHERS | AEI-201

Address: 800 N. Main St. Ex 1

Telephone: (203) 791-2034

Project # 6045450.01

Client PO #

Attention: Daniel Serret

Project Location: PRIMEPORT, CT

Sampled By: SEK/DET

Proposal Provided? (For Billing purposes)

☐ yes ☐ no

State Form Required?

☐ yes ☐ no

DATA DELIVERY (check one):

☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: dan.serret@contest.com

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time Stop Date/Time

Comp- osite Grab Code

\*Matrix | Conc. Code

Field ID Sample Description Lab # 088-098

5B-27 50790 12/20/08

5B-28 50794 00344

5B-29 50794 00345

5B-30 50793 00346

5B-31 50794

5B-32 50795 00347

5B-33 50796

5B-34 50797 0-2

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ANALYSIS REQUESTED

Sp/As

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Sp/Pl

Sp/Pl

# of containers  
\*\*Preservation  
-Cont. Code

-Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V=vial

S=summary can

T=tedlar bag

O=Other

Client

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Detection Limit Requirements

Regulations? CT RSR

Lower of RDEC, GAMC

Data Enhancement Project NO

Special Requirements or DL's: RCR Required

RCR Required

RCR Required

RCR Required

RCR Required

RCR Required

RCR Required

RCR Required

Relinquished by: (signature) [Signature] Date/Time: 12/24/08 10:30  
Received by: (signature) [Signature] Date/Time: 12/24/08 10:30  
Relinquished by: (signature) [Signature] Date/Time: 12/24/08 10:30  
Received by: (signature) [Signature] Date/Time: 12/24/08 10:30

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified



ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR  
EAST LONGMEADOW, MA 01028

Page

45

Company Name: MAINE STATE LABORATORY

Address: 860 N MAIN ST RT

Attention: David S. Sargent

Project Location: BRAINEFIELD CT

Sampled By: S. K. EVANS

Proposal Provided? (For Billing purposes) ☐ yes ☐ no

State Form Required? ☐ yes ☐ no

Telephone: (203) 741 2839

Project # 60-45450-04

Client PO #

DATA DELIVERY (check one):

☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: dans.evans@maine.gov

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time Stop Date/Time

Comp- osite Grab

\*Matrix Code Conc. Code

12/23/08 12/23/08 X S

12/23/08 12/23/08 X

12/23/08 12/23/08 X

12/23/08 12/23/08 X

12/23/08 12/23/08 X

12/23/08 12/23/08 X

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12/23/08 12/23/08 X

12/23/08 12/23/08 X

ANALYSIS REQUESTED

A=amber glass

G=glass

P=plastic

ST=sterile

V=vial

S=summary can

T=tedlar bag

O=Other

Client

Comments:

# of containers

\*\*Preservation

Cont. Code

Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V=vial

S=summary can

T=tedlar bag

O=Other

Client

Comments:

Laboratory Comments:

Relinquished by: (signature)

Date/Time: 12/24/08

Received by: (signature)

Date/Time: 12/24/08

Relinquished by: (signature)

Date/Time: 12/24/08

Received by: (signature)

Date/Time: 12/24/08

Turnaround \*\*

☐ 1-2 Days

☐ 3-5 Days

☐ 10-Day

☐ Other

RUSH \*

☐ 24-Hr

☐ 48-Hr

☐ 72-Hr

☐ 4-Day

Detection Limit Requirements

Regulations? YES

Lower & RECD CA

Data Enhancement Project/PCP NO

Special Requirements or DL's: RCR Required

Regulations? YES

Lower & RECD CA

Data Enhancement Project/PCP NO

Special Requirements or DL's: RCR Required

\*Matrix Code:

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

O = other

\*\*Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

X = Na hydroxide

T = Na thiosulfate

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AI/HA, NELAC & WBE/DBE Certified





con-test<sup>®</sup>  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. 2ND FLOOR  
EAST LONGMEADOW, MA 01028

Page

5 of 5

Company Name: METCALF & EDDY / ABBEY

Address: 860 N. Main St. 12th

Wallingford CT 06497

Attention: D. Sermet

Project Location: Bridgeport CT

Sampled By: Seema

Proposal Provided? (For Billing purposes)

☐ yes ☐ no

State Form Required?

☐ yes ☐ no

Client PO #

DATA DELIVERY (check one):

☐ FAX ☐ EMAIL ☒ WEBSITE CLIENT

Fax #:

Email: dsermet@mac.com

Format: ☒ EXCEL ☐ PDF ☐ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time

Stop Date/Time

Comp-oste

Grab

Code

Matrix Code

Conc. Code

PCBs

PP13 metals

ETPH

VOCs

Lead

Arsenic

VOCs

PP13 metals

PCBs

ETPH

ANALYSIS REQUESTED

2

1

1

1

1

1

1

1

1

1

1

# of containers

\*\*Preservation

-Cont. Code

-Cont. Code:

A=amber glass

G=glass

P=plastic

ST=sterile

V=vial

S=summary can

T=tedar bag

O=Other

Client

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Turnaround \*\*

☒ 1-Day

☐ 5-10 Day

☐ 10-Day

☐ Other

☐ RUSH \*

☐ \*24-Hr

☐ \*48-Hr

☐ \*72-Hr

☐ \*4-Day

Detection Limit Requirements

Regulations? CT ASR

Lower of ASR or EPA

Data Enhancement Project/RCP? ☐ Y ☐ N

Special Requirements or DL's:

Matrix Code:

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

O = other

\*\*Preservation Codes:

I = Ice

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

X = Na hydroxide

T = Na thiosulfate

\*\* TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified

SAMPLE REACTIVATION FORM

COMPANY AECOM/Metcalf+Eddy LOCATION LOB  
CONTACT Dan Seremet PROJECT ID 80 Hastings Street  
CONTACT PHONE 203-741-2839 FAX Bridgeport, CT  
DATE 1/7/09 TIME 3:10pm TAT 5 day DUE DATE 1/14/09  
REQUEST TAKEN BY Holly Folsom GIVEN TO \_\_\_\_\_

ACTIVATION REQUEST:

See attached email for reactivations for 5  
day TAT.

SPECIAL INSTRUCTIONS AND TERMS:

FAXED TO CONTACT FOR APPROVAL: Y N

ACTIVATION IS CORRECT PER OUR REQUEST \_\_\_\_\_ DATE \_\_\_\_\_  
INITIALS

CONTEST FINAL APPROVAL \_\_\_\_\_

**Holly L. Folsom**

---

**From:** "Seremet, Dan" <Dan.Seremet@aecom.com>  
**To:** <hfolsom@contestlabs.com>  
**Cc:** "Hellerich, Lucas" <Lucas.Hellerich@aecom.com>  
**Sent:** Wednesday, January 07, 2009 2:50 PM  
**Subject:** 80 Hastings Street Bridgeport sample reactivation

Hi, We would like to reactivate the following samples from the 80 Hastings Street Bridgeport, CT Dec 22,23 sampling batch.

3 SPLP arsenic (SB-28, SB-29, SB-21) ✓

2 SPLP lead (SB-30 and SB-32) ✓

1 SPLP for Arsenic, Cadmium, Chromium, Copper, Zinc, Lead, Nickel. (SB-16 DUP)

✓ 1 mass ETPH (SB-12) ✓

✓ 2 mass hexavalent chromium (SB-16 and SB-16 DUP)

Please acknowledge this request and let me know if there are any problems or questions. Thank you.

-Dan Seremet

Engineer  
AECOM Environment  
203.741.2839  
dan.seremet@aecom.com

\*5-day TAT\*

LIMIT - 22296

LIMIT - 22297

Appendix G  
Summary of Phase II ESA Concrete Sample Analytical Results  
Progressive Plating Technologies  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSR Criteria				Revised CT RSR Criteria			HAZARDOUS DISPOSAL CRITERIA	Sample Locations		
	I/C DEC	RES DEC	GA PMC	GB PMC	I/C DEC	RES DEC	GB PMC		CC-1	CC-2	CC-3
Sampling Date									9/8/08	9/8/08	9/8/08
Sample Depth (feet)									0-0.5	0-0.5	0-0.5
Laboratory Report Number									LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947
<b>Chromium 6 dry weight (mg/kg dry wt)</b>											
Chromium (+6)	100	100		~	613.2	20.3	~	~	0.68	<0.17	879 <sup>†+</sup>
<b>Metals (13pp) sicmp (mg/kg dry wt)</b>											
Antimony	8,200	27.0	~	~	8,176.0	271.0	~	~	<4.14	<4.11	20.9
Arsenic	10.0	10.0	~	~	10.0	10.0	~	~	15.8 <sup>†+</sup>	17.5 <sup>†+</sup>	57.1 <sup>†+</sup>
Beryllium	2.00	2.00	~	~	408.8	13.6	~	~	<0.26	<0.26	<0.26
Cadmium	1,000	34.0	~	~	40.9	1.4	~	~	37 <sup>+</sup>	203 <sup>+</sup>	387 <sup>+</sup>
Chromium (trivalent)	51,000	3,900	~	~	50,000	50,000	~	~	282	513	6400 <sup>+</sup>
Chromium (total)	NE	NE	~	~	NE	NE	~	~	282	513	6,400
Copper	76,000	2,500	~	~	20,440.0	677.4	~	~	311	4140 <sup>+</sup>	1,590
Lead	1,000	400	~	~	1,000	400	~	~	37.3	90.2	947 <sup>+</sup>
Mercury	610	20.0	~	~	613.2	20.3	~	~	0.029	0.091	0.357
Nickel	7,500	1,400	~	~	1,363.0	45.0	~	~	2220 <sup>+</sup>	36900 <sup>†+</sup>	10400 <sup>†+</sup>
Selenium	10,000	340	~	~	10,220.0	340.0	~	~	<5.17	<5.13	<5.09
Silver	10,000	340	~	~	10,220.0	340.0	~	~	5.13	8.02	24.0
Thallium	160	5.40	~	~	163.5	5.4	~	~	<3.10	<3.08	<3.50
Zinc	610,000	20,000	~	~	50,000	20,322.6	~	~	759	4,320	4,590
<b>SPLP - metals (mg/l leachate)</b>											
Arsenic	~	~	~	0.5	~	~	0.05	5	0.051	0.054	0.144
Barium	~	~	~	10	~	~	22	100	<0.10	<0.10	0.110
Cadmium	~	~	~	0.05	~	~	0.015	1	<0.005	<0.005	1.43 <sup>+</sup>
Chromium	~	~	~	0.5	~	~	~	5	0.410	0.470	19.6 <sup>+</sup>
Lead	~	~	~	0.15	~	~	120	5	0.074	0.073	0.088
Mercury	~	~	~	0.02	~	~	0.077	0.2	<0.00010	<0.00010	0.00094
Selenium	~	~	~	0.5	~	~	0.5	1	<0.05	<0.05	<0.05
Silver	~	~	~	0.36	~	~	0.1	5	<0.005	<0.005	0.081
<b>Percent Solids (percent) (%)</b>											
Solids, total	~	~	~	~	~	~	~	~	96.8	97.5	98.4

Notes:

1. NT = Not tested.
2. NE = Not established
3. ~ = No Standard available
4. A shaded cell indicates value is in exceedence of an existing CT Remediation Standard Regulation. Specific exceedences are indicated as follows:  
† Value exceeds Industrial/Commercial Direct Exposure Criteria  
+ Value exceeds Residential Direct Exposure Criteria  
\* Value exceeds Groundwater Class B Pollutant Mobility Criteria
5. Sample values inside bold-bordered cells exceed hazardous disposal criteria.
6. RSR criteria are in same units as analyte.
7. Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only.  
A summary of exceedance changes due to the revised RSRs is provided in Table 7.
8. I/C = Industrial/ Commercial
9. RES = Residential
10. GB PMC = GB Pollutant Mobility Criteria
11. Detections and select non detections are shown on this table. For complete results see laboratory reports.

U = the compound was analyzed for, but was not detected at the associated value due to blank contamination or variance from other quality control limits.

J = the associated value is an estimated quantity. The reported result is qualitatively accurate but quantitatively imprecise.

UJ = the compound was analyzed for, but was not detected, and the associated value is an estimated value due to the variance from quality control limits.

Appendix G  
Summary of Phase II ESA Soil Sample Analytical Results  
Progressive Plating Technologies  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSR Criteria			Revised CT RSR Criteria			Sample Locations					
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	COMP-1 (SB-4, SB-5, & SB-9)	COMP-2 (SB-6, SB-7, & SB-8)	SB-1	SB-1d	SB-2	SB-3
Sampling Date							9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08
Sample Depth (feet)							0-2 (composite)	0-2 (composite)	1-3	1-3 (duplicate)	1-2	0-1
Laboratory Report Number							LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947
<b>VOCs 8260 solid (mg/kg)</b>												
Acetone	1,000	500	140	1,000	500	1,000	NT	NT	<0.053 UJ	NT	<0.053 UJ	NT
Acrylonitrile	11	1.1	0.1	10.6	.12	.048	NT	NT	<0.006	NT	<0.006	NT
tert-Amyl methyl Ether	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	NT
Benzene	200	21	0.2	57.2	.7	2.5	NT	NT	<0.002	NT	<0.002	NT
Bromobenzene	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
Bromochloromethane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
Bromodichloromethane	92	9.9	0.11	92.0	1.1	0.04	NT	NT	<0.002	NT	<0.002	NT
Bromoform	720	78	0.8	715.4	8.3	248	NT	NT	<0.002	NT	<0.002	NT
Bromomethane	1,000	95	2	1,000.0	33.9	0.1	NT	NT	<0.006	NT	<0.006	NT
2-Butanone (MEK)	1,000	500	80	1,000	500	1,000.0	NT	NT	<0.022 UJ	NT	<0.022 UJ	NT
tert-Butyl Alcohol	~	~	~	~	~	~	NT	NT	<0.022 UJ	NT	<0.022 UJ	NT
n-Butylbenzene	1,000	500	14	1,000	500	2.0	NT	NT	<0.002	NT	<0.002	NT
sec-Butylbenzene	1,000	500	14	1000	500	2.0	NT	NT	<0.002	NT	<0.002	NT
tert-Butylbenzene	1,000	500	14	~	~	~	NT	NT	<0.002	NT	<0.002	NT
tert-Butylethyl Ether	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	NT
Carbon Disulfide	1,000	500	140	1000	500	30.0	NT	NT	<0.006	NT	<0.006	NT
Carbon Tetrachloride	44	4.7	1	44	3.2	0.1	NT	NT	<0.002	NT	<0.002	NT
Chlorobenzene	1,000	500	20	1000	500	43.0	NT	NT	<0.002	NT	<0.002	NT
Chlorodibromomethane	68	7.3	0.1	~	~	~	NT	NT	<0.001	NT	<0.001	NT
Chloroethane	~	~	~	1000	500	237.0	NT	NT	<0.011	NT	<0.011	NT
Chloroform	940	100	1.2	1000	67.7	2.0	NT	NT	<0.003	NT	<0.003	NT
Chloromethane	440	47	0.54	1000	176.1	3.0	NT	NT	<0.006	NT	<0.006	NT
2-Chlorotoluene	~	~	2	1000	135.5	4.0	NT	NT	<0.002	NT	<0.002	NT
4-Chlorotoluene	~	~	2	1000	135.5	3.6	NT	NT	<0.002	NT	<0.002	NT
1,2-Dibromo-3-Chloropropane	4.1	0.44	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
1,2-Dibromoethane	0.067	0.007	0.1	~	~	~	NT	NT	<0.001	NT	<0.001	NT
Dibromomethane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
1,2-Dichlorobenzene	1,000	500	3.1	1,000	500	46.0	NT	NT	<0.002	NT	<0.002	NT
1,3-Dichlorobenzene	1,000	500	120	1000	67.7	2.4	NT	NT	<0.002	NT	<0.002	NT
1,4-Dichlorobenzene	240	26	15	143.1	10.5	18.8	NT	NT	<0.002	NT	<0.002	NT
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	NT	NT	<0.003	NT	<0.003	NT
Dichlorodifluoromethane	~	~	~	~	~	2.0	NT	NT	<0.011	NT	<0.011	NT
1,1-Dichloroethane	1,000	500	14	1,000	500	15.0	NT	NT	<0.002	NT	<0.002	NT
1,2-Dichloroethane	63	6.7	0.2	63	0.7	0.12	NT	NT	<0.002	NT	<0.002	NT
1,1-Dichloroethylene	9.5	1.0	1.4	1000	500	2.3	NT	NT	<0.003	NT	<0.003	NT
cis-1,2-Dichloroethylene	1,000	500	14	1000	500	18.6	NT	NT	<0.002	NT	<0.002	NT
trans-1,2-Dichloroethylene	1,000	500	20	1000	500	10.7	NT	NT	<0.002	NT	<0.002	NT
1,2-Dichloropropane	84	9.0	1	159	11.6	0.2	NT	NT	<0.002	NT	<0.002	NT
1,3-Dichloropropane	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	NT
2,2-Dichloropropane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
1,1-Dichloropropene	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
cis-1,3-Dichloropropene	32	3.4	0.1	57.2	.7	.1	NT	NT	<0.001	NT	<0.001	NT
trans-1,3-Dichloropropene	32	3.4	0.1	57.2	.7	.1	NT	NT	<0.001	NT	<0.001	NT
Diethyl Ether	~	~	~	~	~	~	NT	NT	<0.011	NT	<0.011	NT
Diisopropyl Ether	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	NT
1,4-Dioxane	~	~	~	~	~	~	NT	NT	<0.053 UJ	NT	<0.053 UJ	NT
Ethyl Benzene	1,000	500	10.1	1000	500	35.0	NT	NT	<0.002	NT	<0.002	NT
Hexachlorobutadiene	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
2-Hexanone	~	~	~	~	~	~	NT	NT	<0.011	NT	<0.011	NT
Isopropylbenzene	1,000	500	132	1,000	500	18.0	NT	NT	<0.002	NT	<0.002	NT
p-Isopropyltoluene	1,000	500	41.8	~	~	18.6	NT	NT	<0.002	NT	<0.002	NT
MTBE	1,000	500	20	1,000	500	440.0	NT	NT	<0.003	NT	<0.003	NT
Methylene Chloride	760	82	1	763.1	8.8	3.2	NT	NT	<0.011	NT	<0.011	NT
MIBK	1,000	500	14	1,000	500	1,000.0	NT	NT	<0.011	NT	<0.011	NT
Naphthalene	2,500	1,000	56	~	~	~	NT	NT	<0.006 UJ	NT	<0.006 UJ	NT
n-Propylbenzene	1,000	500	14	1,000	500	14.0	NT	NT	<0.002	NT	<0.002	NT
Styrene	1,000	500	20	1,000	135.4	48.0	NT	NT	<0.002	NT	<0.002	NT
1,1,1,2-Tetrachloroethane	220	24	0.2	220	2.5	0.08	NT	NT	<0.002	NT	<0.002	NT
1,1,2,2-Tetrachloroethane	29	3.1	0.1	29.0	2.3	0.028	NT	NT	<0.001	NT	<0.001	NT
Tetrachloroethylene	110	12	1	10.6	0.8	1.6	NT	NT	<0.002	NT	<0.002	NT

Appendix G  
Summary of Phase II ESA Soil Sample Analytical Results  
Progressive Plating Technologies  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSR Criteria			Revised CT RSR Criteria			Sample Locations					
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	COMP-1 (SB-4, SB-5, & SB-9)	COMP-2 (SB-6, SB-7, & SB-8)	SB-1	SB-1d	SB-2	SB-3
Sampling Date							9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08
Sample Depth (feet)							0-2 (composite)	0-2 (composite)	1-3	1-3 (duplicate)	1-2	0-1
Laboratory Report Number							LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947
Tetrahydrofuran	~	~	~	753.1	55.0	9.9	NT	NT	<0.006 UJ	NT	<0.006 UJ	NT
Toluene	1,000	500	67	1,000.0	453.9	117.5	NT	NT	<0.002	NT	<0.002	NT
1,2,3-Trichlorobenzene	~	~	~	~	~	~	NT	NT	<0.003	NT	<0.003	NT
1,2,4-Trichlorobenzene	2,500	680	14	1,000.0	500	2.4	NT	NT	<0.003	NT	<0.003	NT
1,1,1-Trichloroethane	1,000	500	40	1,000	500	51.0	NT	NT	<0.002	NT	<0.002	NT
1,1,2-Trichloroethane	100	11	1	100.0	7.3	0.2	NT	NT	<0.002	NT	<0.002	NT
Trichloroethylene	520	56	1	64.3	0.7	0.52	NT	NT	<0.002	NT	<0.002	NT
Trichlorofluoromethane	1,000	500	260	1,000	500.0	35.0	NT	NT	<0.006	NT	<0.006	NT
1,2,3-Trichloropropane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	NT
1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	~	~	~	NT	NT	<0.006	NT	<0.006	NT
1,2,4-Trimethylbenzene	1,000	500	70	1,000	500	2.4	NT	NT	<0.002	NT	<0.002	NT
1,3,5-Trimethylbenzene	1,000	500	70	1,000	500	1.9	NT	NT	<0.002	NT	<0.002	NT
Vinyl Chloride	3.0	0.32	0.4	8.0	0.1	38.0	NT	NT	<0.006	NT	<0.006	NT
m + p Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	<0.003	NT	<0.003	NT
o-Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	<0.002	NT	<0.002	NT
Cyanide (mg/kg)												
Cyanide	41000	1400	~	40880	1354.8	~	51.0	NT	NT	NT	NT	32
SPLP-cyanide (mg/l)												
Cyanide	~	~	2	~	~	0.52	NT	NT	NT	NT	NT	NT
SPLP-mercury (mg/l leachate)												
Mercury	~	~	0.02	~	~	77	NT	NT	<0.00010	NT	NT	NT
chromium 6 dry weight (mg/kg dry wt)												
Chromium (+6)	100	100	~	613.2	20.3	~	NT	<1.81	NT	NT	NT	NT
ETPH dry weight (mg/kg dry weight)												
Extractable TPH (ETPH)	2,500	500	2,500	~	~	2,500	NT	NT	430	580 <sup>+</sup>	300	NT
Metals (15pp) sicp (mg/kg dry wt)												
Antimony	8,200	27.0	~	8,176.0	271.0	~	<4.38	<4.61	<4.54	<4.66	<4.23	NT
Arsenic	10.0	10.0	~	10.0	10.0	~	8.07	12.4 <sup>1+</sup>	8.32	8.53	14.5 <sup>1+</sup>	NT
Barium	140,000	4,700	~	50,000	13,548	~	59.3	47.4	338.0	158	66.6	NT
Beryllium	2.00	2.00	~	408.8	13.6	~	<0.28	<0.29	<0.29	<0.30	<0.27	NT
Cadmium	1,000	34.0	~	40.9	1.4	~	27.1	15.5	2.99	2.39	1.00	NT
Chromium	100	100	~	~	~	~	82.7	99.8	33.9	28	19.8	NT
Copper	76,000	2,500	~	20,440.0	677.4	~	152	531	293	298	17	NT
Lead	1,000	400	~	1,000	400	~	163	28.6	1360 <sup>1+</sup>	710 <sup>1+</sup>	38.8	NT
Mercury	610	20.0	~	613.2	20.3	~	0.059	<0.015	0.346	0.462	0.026	NT
Nickel	7,500	1,400	~	1,363.0	45.0	~	100	399	49.0	34.4	17.2	NT
Selenium	10,000	340	~	10,220.0	340.0	~	<5.38	<5.77	<5.67	<5.82	<5.28	NT
Silver	10,000	340	~	10,220.0	340.0	~	3.91	4.12	5.08	4.62	4.35	NT
Thallium	160	5.40	~	163.5	5.4	~	<3.29	<3.46	<3.40	<3.49	<3.17	NT
Vanadium	14,000	470	~	2,044	67.7	~	20.3	25.5	44.1	34	36	NT
Zinc	610,000	20,000	~	50,000	20,322.6	~	330	91.6	485	540	61	NT
SPLP - 14 ga rcp (ug/l)												
Antimony	~	~	60	~	~	19,000	NT	NT	<5.00	NT	NT	NT
Arsenic	~	~	500	~	~	50	NT	NT	NT	NT	NT	NT
Barium	~	~	10,000	~	~	22,000	NT	NT	<250	NT	NT	NT
Beryllium	~	~	40	~	~	360	NT	NT	NT	NT	NT	NT
Cadmium	~	~	50	~	~	15	NT	NT	<2.50	NT	NT	NT
Chromium	~	~	500	~	~	~	NT	NT	<50.0	NT	NT	NT
Copper	~	~	13,000	~	~	500	NT	NT	957	NT	NT	NT
Lead	~	~	150	~	~	120,000	NT	NT	110	NT	NT	NT
Nickel	~	~	1,000	~	~	2,900,000	NT	NT	<25.0	NT	NT	NT
Selenium	~	~	500	~	~	500	NT	NT	NT	NT	NT	NT
Silver	~	~	360	~	~	100	NT	NT	NT	NT	NT	NT
Thallium	~	~	50	~	~	1,480	NT	NT	<1.00	NT	NT	NT
Vanadium	~	~	500	~	~	4,400	NT	NT	<25.0	NT	NT	NT
Zinc	~	~	50,000	~	~	6,500	NT	NT	NT	NT	NT	NT

Appendix G  
Summary of Phase II ESA Soil Sample Analytical Results  
Progressive Plating Technologies  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSR Criteria			Revised CT RSR Criteria			Sample Locations					
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	COMP-1 (SB-4, SB-5, & SB-9)	COMP-2 (SB-6, SB-7, & SB-8)	SB-1	SB-1d	SB-2	SB-3
Sampling Date							9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08
Sample Depth (feet)							0-2 (composite)	0-2 (composite)	1-3	1-3 (duplicate)	1-2	0-1
Laboratory Report Number							LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947	LIMIT-19446 & LIMIT-19947
<b>PAHs - sludge (mg/kg dry wt) by 8270</b>												
Acenaphthene	2,500	1,000	84	2500	1000	30	<0.180	<0.192	NT	NT	NT	NT
Acenaphthylene	2,500	1,000	84	2500	1000	26	<0.180	<0.192	NT	NT	NT	NT
Anthracene	2,500	1,000	400	2500	1000	1	<0.180	<0.192	NT	NT	NT	NT
Benzo(a)anthracene	7.80	1	1	7.8	1	2	0.396	<0.192	NT	NT	NT	NT
Benzo(a)pyrene	1	1	1	1	1	1	0.374	<0.192	NT	NT	NT	NT
Benzo(b)fluoranthene	7.80	1	1	7.8	1	1.8	0.429	<0.192	NT	NT	NT	NT
Benzo(g,h,i)perylene	2,500	1,000	42	2500	1000	29.6	0.235	<0.192	NT	NT	NT	NT
Benzo(k)fluoranthene	78.0	8.40	1	78	8.4	1	0.184	<0.192	NT	NT	NT	NT
Chrysene	780	84.0	1	780	84	9.4	0.496	<0.192	NT	NT	NT	NT
Dibenz(a,h)anthracene	1	1	1	1	1	1	<0.180	<0.192	NT	NT	NT	NT
Fluoranthene	2,500	1,000	56	2500	1000	1.6	0.570	<0.192	NT	NT	NT	NT
Fluorene	2,500	1,000	56	2500	1000	7.8	<0.180	<0.192	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	7.80	1	1	7.8	1	3	0.225	<0.192	NT	NT	NT	NT
2-Methylnaphthalene	2,500	474	9.8	~	~	~	<0.180	<0.192	NT	NT	NT	NT
Naphthalene	2,500	1,000	56	1000	135.5	5.2	<0.180	<0.192	NT	NT	NT	NT
Phenanthrene	2,500	1,000	40	~	~	4.6	0.464	<0.192	NT	NT	NT	NT
Pyrene	2,500	1,000	40	~	~	9.2	0.65	<0.192	NT	NT	NT	NT
<b>SPLP - PAHs (ug/l)</b>			(GA GWPC X 10)			(GA GWPC X 10)						
Acenaphthene	~	~	4200	~	~	4,200	<0.30 UJ	NT	NT	NT	NT	NT
Acenaphthylene	~	~	4200	~	~	4,200	<0.30 UJ	NT	NT	NT	NT	NT
Anthracene	~	~	20,000	~	~	10,000	<0.20 UJ	NT	NT	NT	NT	NT
Benzo(a)anthracene	~	~	0.6	~	~	2	0.080 UJ	NT	NT	NT	NT	NT
Benzo(a)pyrene	~	~	2.0	~	~	2	<0.10 UJ	NT	NT	NT	NT	NT
Benzo(b)fluoranthene	~	~	0.8	~	~	2	<0.050 UJ	NT	NT	NT	NT	NT
Benzo(g,h,i)perylene	~	~	2,100	~	~	5	<0.50 UJ	NT	NT	NT	NT	NT
Benzo(k)fluoranthene	~	~	5.0	~	~	2	<0.20 UJ	NT	NT	NT	NT	NT
Chrysene	~	~	48	~	~	11	<0.20 UJ	NT	NT	NT	NT	NT
Dibenz(a,h)anthracene	~	~	5.0	~	~	2	<0.50 UJ	NT	NT	NT	NT	NT
Fluoranthene	~	~	2,800	~	~	2,800	<0.50 UJ	NT	NT	NT	NT	NT
Fluorene	~	~	2,800	~	~	2,800	<1.00 UJ	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	~	~	5.0	~	~	2	<0.50 UJ	NT	NT	NT	NT	NT
Naphthalene	~	~	490	~	~	140	<1.00 UJ	NT	NT	NT	NT	NT
Phenanthrene	~	~	2,000	~	~	3,500	1.07 UJ	NT	NT	NT	NT	NT
Pyrene	~	~	2,000	~	~	2,100	<1.00 UJ	NT	NT	NT	NT	NT
<b>Percent Solids (percent) (%)</b>												
Solids, total	~	~	~	~	~	~	91.4	86.8	88.3	86.0	94.7	NT

Notes:

1. NT = Not tested.
2. NE = Not applicable
3. ~ = No Standard available
4. A bold outlined cell indicates that the mininum laboratory reporting limit exceeds one or more of the regulatory criteria.
5. A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:  
† Value exceeds Industrial/Commercial Direct Exposure Criteria  
+ Value exceeds Residential Direct Exposure Criteria  
\* Value exceeds Groundwater Class B Pollutant Mobility Criteria
6. RSR criteria are in same units as analyte.
7. Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only.  
A summary of exceedance changes due to the revised RSRs is provided in Table 7.
8. Detections and select non detections are shown on this table. For complete results see laboratory reports.  
U = the compound was analyzed for, but was not detected at the associated value due to blank contamination or variance from other quality control limits.  
J = the associated value is an estimated quantity. The reported result is qualitatively accurate but quantitatively imprecise.  
UJ = the compound was analyzed for, but was not detected, and the associated value is an estimated value due to the variance from quality control limits.

Appendix G  
Summary of Phase II ESA Soil Sample Analytical Results  
Progressive Plating Technologies  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSR Criteria			Revised CT RSR Criteria			Sample Locations					TB	EB	
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-5b	SB-6b	SB-6d	SB-9b	SB-16		9/9/2008 & 9/11/08 Equipment Blank LIMT-19446 & LIMT-19551	
Sampling Date							9/8/08 2-4	9/8/08 2-4	9/8/08 6-8	9/8/08 2-4	9/8/08 6-8 (duplicate of SB-6d)	9/8/08 Trip Blank		
Sample Depth (feet)							LIMIT-19446 & LIMT-19947	LIMIT-19446 & LIMT-19947	LIMIT-19446 & LIMT-19947	LIMIT-19446 & LIMT-19947	LIMIT-19446 & LIMT-19947	LIMIT-19446 & LIMT-19947		
Laboratory Report Number														
<b>VOCs 8260 solid (mg/kg)</b>													<b>8260 water (ug/l)</b>	
Acetone	1,000	500	140	1,000	500	1,000	NT	NT	<0.057 UJ	NT	<0.057 UJ	<0.10 UJ	Acetone	<5.0
Acrylonitrile	11	1.1	0.1	10.6	.12	.048	NT	NT	<0.006	NT	<0.006	<0.010	Acrylonitrile	<2.0
tert-Amylmethyl Ether	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	<0.001	tert-Amylmethyl Ether	<0.5
Benzene	200	21	0.2	57.2	.7	2.5	NT	NT	<0.002	NT	<0.002	<0.002	Benzene	<0.5
Bromobenzene	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	Bromobenzene	<0.5
Bromochloromethane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	Bromochloromethane	<0.5
Bromodichloromethane	92	9.9	0.11	92.0	1.1	0.04	NT	NT	<0.002	NT	<0.002	<0.002	Bromodichloromethane	<0.5
Bromoform	720	78	0.8	715.4	8.3	248	NT	NT	<0.002	NT	<0.002	<0.002	Bromoform	<0.5 UJ
Bromomethane	1,000	95	2	1,000.0	33.9	0.1	NT	NT	<0.006	NT	<0.006	<0.010	Bromomethane	<0.5
2-Butanone (MEK)	1,000	500	80	1,000	500	1,000.0	NT	NT	<0.023 UJ	NT	<0.023 UJ	<0.040 UJ	2-Butanone (MEK)	<2.0
tert-Butyl Alcohol	~	~	~	~	~	~	NT	NT	<0.023 UJ	NT	<0.023 UJ	<0.040 UJ	tert-Butyl Alcohol	<5.0 UJ
n-Butylbenzene	1,000	500	14	1,000	500	2.0	NT	NT	<0.002	NT	<0.002	<0.002	n-Butylbenzene	<0.5
sec-Butylbenzene	1,000	500	14	1000	500	2.0	NT	NT	<0.002	NT	<0.002	<0.002	sec-Butylbenzene	<0.5
tert-Butylbenzene	1,000	500	14	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	tert-Butylbenzene	<0.5
tert-Butylethyl Ether	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	<0.001	tert-Butylethyl Ether	<0.5
Carbon Disulfide	1,000	500	140	1000	500	30.0	NT	NT	<0.006	NT	<0.006	<0.006	Carbon Disulfide	<0.5
Carbon Tetrachloride	44	4.7	1	44	3.2	0.1	NT	NT	<0.002	NT	<0.002	<0.002	Carbon Tetrachloride	<0.5
Chlorobenzene	1,000	500	20	1000	500	43.0	NT	NT	<0.002	NT	<0.002	<0.002	Chlorobenzene	<0.5
Chlorodibromomethane	68	7.3	0.1	~	~	~	NT	NT	<0.001	NT	<0.001	<0.001	Chlorodibromomethane	<0.5
Chloroethane	~	~	~	1000	500	237.0	NT	NT	<0.012	NT	<0.012	<0.020	Chloroethane	<0.5
Chloroform	940	100	1.2	1000	67.7	2.0	NT	NT	<0.003	NT	<0.003	<0.004	Chloroform	<0.5
Chloromethane	440	47	0.54	1000	176.1	3.0	NT	NT	<0.006	NT	<0.006	<0.010	Chloromethane	<0.5
2-Chlorotoluene	~	~	~	1000	135.5	4.0	NT	NT	<0.002	NT	<0.002	<0.002	2-Chlorotoluene	<0.5
4-Chlorotoluene	~	~	~	1000	135.5	3.6	NT	NT	<0.002	NT	<0.002	<0.002	4-Chlorotoluene	<0.5
1,2-Dibromo-3-Chloropropane	4.1	0.44	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	1,2-Dibromo-3-Chloropropane	<0.5
1,2-Dibromoethane	0.067	0.007	0.1	~	~	~	NT	NT	<0.001	NT	<0.001	<0.001	1,2-Dibromoethane	<0.50
Dibromomethane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	Dibromomethane	<0.5
1,2-Dichlorobenzene	1,000	500	3.1	1,000	500	46.0	NT	NT	<0.002	NT	<0.002	<0.002	1,2-Dichlorobenzene	<0.5
1,3-Dichlorobenzene	1,000	500	120	1000	67.7	2.4	NT	NT	<0.002	NT	<0.002	<0.002	1,3-Dichlorobenzene	<0.5
1,4-Dichlorobenzene	240	26	15	143.1	10.5	18.8	NT	NT	<0.002	NT	<0.002	<0.002	1,4-Dichlorobenzene	<0.5
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	NT	NT	<0.003	NT	<0.003	<0.004	trans-1,4-Dichloro-2-Butene	<0.5 UJ
Dichlorodifluoromethane	~	~	~	~	~	~	NT	NT	<0.012	NT	<0.012	<0.020	Dichlorodifluoromethane	<0.5
1,1-Dichloroethane	1,000	500	14	1,000	500	15.0	NT	NT	<0.002	NT	<0.002	<0.002	1,1-Dichloroethane	<0.5
1,2-Dichloroethane	63	6.7	0.2	63	0.7	0.12	NT	NT	<0.002	NT	<0.002	<0.002	1,2-Dichloroethane	<0.5
1,1-Dichloroethylene	9.5	1.0	1.4	1000	500	2.3	NT	NT	<0.003	NT	<0.003	<0.004	1,1-Dichloroethylene	<0.5
cis-1,2-Dichloroethylene	1,000	500	14	1000	500	18.6	NT	NT	<0.002	NT	<0.002	<0.002	cis-1,2-Dichloroethylene	<0.5
trans-1,2-Dichloroethylene	1,000	500	20	1000	500	10.7	NT	NT	<0.002	NT	<0.002	<0.002	trans-1,2-Dichloroethylene	<0.5
1,2-Dichloropropane	84	9.0	1	159	11.6	0.2	NT	NT	<0.002	NT	<0.002	<0.002	1,2-Dichloropropane	<0.5
1,3-Dichloropropane	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	<0.001	1,3-Dichloropropane	<0.5
2,2-Dichloropropane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	2,2-Dichloropropane	<0.5
1,1-Dichloropropene	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	1,1-Dichloropropene	<0.5
cis-1,3-Dichloropropene	32	3.4	0.1	57.2	.7	.1	NT	NT	<0.001	NT	<0.001	<0.001	cis-1,3-Dichloropropene	<0.5
trans-1,3-Dichloropropene	32	3.4	0.1	57.2	.7	.1	NT	NT	<0.001	NT	<0.001	<0.001	trans-1,3-Dichloropropene	<0.5
Diethyl Ether	~	~	~	~	~	~	NT	NT	<0.012	NT	<0.012	<0.020	Diethyl Ether	<0.5
Diisopropyl Ether	~	~	~	~	~	~	NT	NT	<0.001	NT	<0.001	<0.020	Diisopropyl Ether	<0.5
1,4-Dioxane	~	~	~	~	~	~	NT	NT	<0.057 UJ	NT	<0.057 UJ	<0.10 UJ	1,4-Dioxane	<50.0 UJ
Ethyl Benzene	1,000	500	10.1	1000	500	35.0	NT	NT	<0.002	NT	<0.002	<0.002	Ethyl Benzene	<0.5
Hexachlorobutadiene	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	Hexachlorobutadiene	<0.4
2-Hexanone	~	~	~	~	~	~	NT	NT	<0.012	NT	<0.012	<0.020	2-Hexanone	<10.0
Isopropylbenzene	1,000	500	132	1,000	500	18.0	NT	NT	<0.002	NT	<0.002	<0.002	Isopropylbenzene	<0.5
p-Isopropyltoluene	1,000	500	41.8	~	~	18.6	NT	NT	<0.002	NT	<0.002	<0.002	p-Isopropyltoluene	<0.5
MTBE	1,000	500	20	1,000	500	440.0	NT	NT	<0.003	NT	<0.003	<0.004	MTBE	<0.5
Methylene Chloride	760	82	1	763.1	8.8	3.2	NT	NT	<0.012	NT	<0.012	<0.020	Methylene Chloride	<0.5
MIBK	1,000	500	14	1,000	500	1,000.0	NT	NT	<0.012	NT	<0.012	<0.020	MIBK	<2.0
Naphthalene	2,500	1,000	56	~	~	~	NT	NT	<0.006	UJ	<0.006	UJ	Naphthalene	<0.5
n-Propylbenzene	1,000	500	14	1,000	500	14.0	NT	NT	<0.002	NT	<0.002	<0.002	n-Propylbenzene	<0.5
Styrene	1,000	500	20	1,000	135.4	48.0	NT	NT	<0.002	NT	<0.002	<0.002	Styrene	<0.5
1,1,1,2-Tetrachloroethane	220	24	0.2	220	2.5	0.08	NT	NT	<0.002	NT	<0.002	<0.002	1,1,1,2-Tetrachloroethane	<0.5
1,1,2,2-Tetrachloroethane	29	3.1	0.1	29.0	2.3	0.028	NT	NT	<0.001	NT	<0.001	<0.001	1,1,2,2-Tetrachloroethane	<0.5
Tetrachloroethylene	110	12	1	10.6	0.8	1.6	NT	NT	<0.002	NT	<0.002	<0.002	Tetrachloroethylene	<0.5



Appendix G  
Summary of Phase II ESA Soil Sample Analytical Results  
Progressive Plating Technologies  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSR Criteria			Revised CT RSR Criteria			Sample Locations					TB	EB	
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-5b	SB-6b	SB-6d	SB-9b	SB-16	9/8/08 Trip Blank	9/9/2008 & 9/11/08 Equipment Blank	
Sampling Date							9/8/08 2-4	9/8/08 2-4	9/8/08 6-8	9/8/08 2-4	9/8/08 6-8 (duplicate of SB-6d)	9/8/08 Trip Blank	9/9/2008 & 9/11/08 Equipment Blank	
Laboratory Report Number							LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19551	
Tetrahydrofuran	~	~	~	753.1	55.0	9.9	NT	NT	<0.006 UJ	NT	<0.006 UJ	<0.010 UJ	Tetrahydrofuran	<5.0
Toluene	1,000	500	67	1,000.0	453.9	117.5	NT	NT	<0.002	NT	<0.002	<0.002	Toluene	<0.5
1,2,3-Trichlorobenzene	~	~	~	~	~	~	NT	NT	<0.003	NT	<0.003	<0.002	1,2,3-Trichlorobenzene	<0.5
1,2,4-Trichlorobenzene	2,500	680	14	1,000.0	500	2.4	NT	NT	<0.003	NT	<0.003	<0.010	1,2,4-Trichlorobenzene	<0.5
1,1,1-Trichloroethane	1,000	500	40	1,000	500	51.0	NT	NT	<0.002	NT	<0.002	<0.002	1,1,1-Trichloroethane	<0.5
1,1,2-Trichloroethane	100	11	1	100.0	7.3	0.2	NT	NT	<0.002	NT	<0.002	<0.002	1,1,2-Trichloroethane	<0.5
Trichloroethylene	520	56	1	64.3	0.7	0.52	NT	NT	<0.002	NT	<0.002	<0.002	Trichloroethylene	<0.5
Trichlorofluoromethane	1,000	500	260	1,000	500.0	35.0	NT	NT	<0.006	NT	<0.006	<0.010	Trichlorofluoromethane	<0.5
1,2,3-Trichloropropane	~	~	~	~	~	~	NT	NT	<0.002	NT	<0.002	<0.002	1,2,3-Trichloropropane	<0.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	~	~	~	NT	NT	<0.006	NT	<0.006	<0.010	1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5
1,2,4-Trimethylbenzene	1,000	500	70	1,000	500	2.4	NT	NT	<0.002	NT	<0.002	<0.002	1,2,4-Trimethylbenzene	<0.5
1,3,5-Trimethylbenzene	1,000	500	70	1,000	500	1.9	NT	NT	<0.002	NT	<0.002	<0.002	1,3,5-Trimethylbenzene	<0.5
Vinyl Chloride	3.0	0.32	0.4	8.0	0.1	38.0	NT	NT	<0.006	NT	<0.006	<0.010	Vinyl Chloride	<0.5
m + p Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	<0.003	NT	<0.003	<0.004	m + p Xylene	<1.0
o-Xylene	1,000	500	19.5	1,000	500	41.0	NT	NT	<0.002	NT	<0.002	<0.002	o-Xylene	<0.5
Cyanide (mg/kg)													cyanide-total (mg/l)	
Cyanide	41000	1400	~	40880	1354.8	~	190	3.9	NT	35	NT	NT	Cyanide	<0.010
SPLP-cyanide (mg/l)													SPLP cyanide	
Cyanide	~	~	2	~	~	0.52	0.283	NT	NT	NT	NT	NT		NT
SPLP-mercury (mg/l leachate)													SPLP-mercury	
Mercury	~	~	0.02	~	~	77	NT	NT	NT	NT	NT	NT		NT
chromium 6 dry weight (mg/kg dry wt)													chromium 6	
Chromium (+6)	100	100	~	613.2	20.3	~	<1.82	<1.80 UJ	NT	NT	NT	NT		NT
ETPH dry weight (mg/kg dry weight)													etph water (mg/l)	
Extractable TPH (ETPH)	2,500	500	2,500	~	~	2,500	NT	NT	23	NT	NT	NT	Extractable TPH (ETPH)	<0.075
Metals (15pp) sicp (mg/kg dry wt)													6020 h2o 14rcp (ug/L)	
Antimony	8,200	27.0	~	8,176.0	271.0	~	8.10	<4.58	NT	<4.39	NT	NT	Antimony	<5.00
Arsenic	10.0	10.0	~	10.0	10.0	~	15.8 <sup>+</sup>	11 <sup>+</sup>	NT	8.29	NT	NT	Arsenic	<2.00
Barium	140,000	4,700	~	50,000	13,548	~	83.5	57.9	NT	67.2	NT	NT	Barium	<250
Beryllium	2.00	2.00	~	408.8	13.6	~	<0.29	<0.29	NT	<0.28	NT	NT	Beryllium	<2.00
Cadmium	1,000	34.0	~	40.9	1.4	~	986 <sup>+</sup>	47.9 <sup>+</sup>	NT	5.70	NT	NT	Cadmium	<2.50
Chromium	100	100	~	~	~	~	1020 <sup>+</sup>	123 <sup>+</sup>	NT	29.2	NT	NT	Chromium	<50.0
Copper	76,000	2,500	~	20,440.0	677.4	~	304	470	NT	41.0	NT	NT	Copper	<25.0
Lead	1,000	400	~	1,000	400	~	79.9	10.4	NT	67.2	NT	NT	Lead	5.62
Mercury	610	20.0	~	613.2	20.3	~	0.029	0.020	NT	0.077	NT	NT	Mercury	<0.00010
Nickel	7,500	1,400	~	1,363.0	45.0	~	189	290	NT	56.3	NT	NT	Nickel	<25.0
Selenium	10,000	340	~	10,220.0	340.0	~	<5.80	<5.73	NT	<5.48	NT	NT	Selenium	<25.0
Silver	10,000	340	~	10,220.0	340.0	~	4.77	7.49	NT	3.73	NT	NT	Silver	<2.50
Thallium	160	5.40	~	163.5	5.4	~	<3.48 UJ	<3.44 UJ	NT	<3.29 UJ	NT	NT	Thallium	2.91
Vanadium	14,000	470	~	2,044	67.7	~	27.6	50.4	NT	25.1	NT	NT	Vanadium	<25.0
Zinc	610,000	20,000	~	50,000	20,322.6	~	1,870	537	NT	71.1	NT	NT	Zinc	<100
SPLP - 14 ga rcp (ug/l)													SPLP 14 ga rcp	NT
Antimony	~	~	60	~	~	19,000	<5.00	NT	NT	NT	NT	NT		
Arsenic	~	~	500	~	~	50	<2.00	<2.00	NT	NT	NT	NT		
Barium	~	~	10,000	~	~	22,000	NT	NT	NT	NT	NT	NT		
Beryllium	~	~	40	~	~	360	NT	NT	NT	NT	NT	NT		
Cadmium	~	~	50	~	~	15	592 <sup>+</sup>	7.97	NT	NT	NT	NT		
Chromium	~	~	500	~	~	~	190	<50.0	NT	NT	NT	NT		
Copper	~	~	13,000	~	~	500	115	<25.0	NT	NT	NT	NT		
Lead	~	~	150	~	~	120,000	9.42	9.66	NT	NT	NT	NT		
Nickel	~	~	1,000	~	~	2,900,000	51.2	<25.0	NT	NT	NT	NT		
Selenium	~	~	500	~	~	500	NT	NT	NT	NT	NT	NT		
Silver	~	~	360	~	~	100	NT	<2.50	NT	NT	NT	NT		
Thallium	~	~	50	~	~	1,480	1.68	NT	NT	NT	NT	NT		
Vanadium	~	~	500	~	~	4,400	<25.0	<25.0	NT	NT	NT	NT		
Zinc	~	~	50,000	~	~	6,500	370	NT	NT	NT	NT	NT		

Appendix G  
Summary of Phase II ESA Soil Sample Analytical Results  
Progressive Plating Technologies  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSR Criteria			Revised CT RSR Criteria			Sample Locations					TB	EB	
	I/C DEC	RES DEC	GB PMC	I/C DEC	RES DEC	GB PMC	SB-5b	SB-6b	SB-6d	SB-9b	SB-16		9/9/2008 & 9/11/08 Equipment Blank LIMT-19446 & LIMT-19551	
Sampling Date							9/8/08	9/8/08	9/8/08	9/8/08	9/8/08	9/8/08		
Sample Depth (feet)							2-4	2-4	6-8	2-4	6-8 (duplicate of SB-6d)	Trip Blank		
Laboratory Report Number							LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947	LIMT-19446 & LIMT-19947		
<b>PAHs - sludge (mg/kg dry wt) by 8270</b>													<b>pah - lo h2o all (ug/l)</b>	
Acenaphthene	2,500	1,000	84	2500	1000	30	NT	NT	NT	NT	NT	NT	Acenaphthene	<0.30 UJ
Acenaphthylene	2,500	1,000	84	2500	1000	26	NT	NT	NT	NT	NT	NT	Acenaphthylene	<0.30 UJ
Anthracene	2,500	1,000	400	2500	1000	1	NT	NT	NT	NT	NT	NT	Anthracene	<0.20
Benzo(a)anthracene	7.80	1	1	7.8	1	2	NT	NT	NT	NT	NT	NT	Benzo(a)anthracene	<0.050
Benzo(a)pyrene	1	1	1	1	1	1	NT	NT	NT	NT	NT	NT	Benzo(a)pyrene	<0.100
Benzo(b)fluoranthene	7.80	1	1	7.8	1	1.8	NT	NT	NT	NT	NT	NT	Benzo(b)fluoranthene	<0.050
Benzo(g,h,i)perylene	2,500	1,000	42	2500	1000	29.6	NT	NT	NT	NT	NT	NT	Benzo(g,h,i)perylene	<0.500
Benzo(k)fluoranthene	78.0	8.40	1	78	8.4	1	NT	NT	NT	NT	NT	NT	Benzo(k)fluoranthene	<0.200
Chrysene	780	84.0	1	780	84	9.4	NT	NT	NT	NT	NT	NT	Chrysene	<0.20
Dibenz(a,h)anthracene	1	1	1	1	1	1	NT	NT	NT	NT	NT	NT	Dibenz(a,h)anthracene	<0.500
Fluoranthene	2,500	1,000	56	2500	1000	1.6	NT	NT	NT	NT	NT	NT	Fluoranthene	<0.50
Fluorene	2,500	1,000	56	2500	1000	7.8	NT	NT	NT	NT	NT	NT	Fluorene	<1.00
Indeno(1,2,3-cd)pyrene	7.80	1	1	7.8	1	3	NT	NT	NT	NT	NT	NT	Indeno(1,2,3-cd)pyrene	<0.500
2-Methylnaphthalene	2,500	474	9.8	~	~	~	NT	NT	NT	NT	NT	NT	2-Methylnaphthalene	<1.00 UJ
Naphthalene	2,500	1,000	56	1000	135.5	5.2	NT	NT	NT	NT	NT	NT	Naphthalene	<1.00 UJ
Phenanthrene	2,500	1,000	40	~	~	4.6	NT	NT	NT	NT	NT	NT	Phenanthrene	<0.05
Pyrene	2,500	1,000	40	~	~	9.2	NT	NT	NT	NT	NT	NT	Pyrene	<1.00
<b>SPLP - PAHs (ug/l)</b>			(GA GWPC X 10)			(GA GWPC X 10)							<b>SPLP - PAHs</b>	NT
Acenaphthene	~	~	4200	~	~	4,200	NT	NT	NT	NT	NT	NT		
Acenaphthylene	~	~	4200	~	~	4,200	NT	NT	NT	NT	NT	NT		
Anthracene	~	~	20,000	~	~	10,000	NT	NT	NT	NT	NT	NT		
Benzo(a)anthracene	~	~	0.6	~	~	2	NT	NT	NT	NT	NT	NT		
Benzo(a)pyrene	~	~	2.0	~	~	2	NT	NT	NT	NT	NT	NT		
Benzo(b)fluoranthene	~	~	0.8	~	~	2	NT	NT	NT	NT	NT	NT		
Benzo(g,h,i)perylene	~	~	2,100	~	~	5	NT	NT	NT	NT	NT	NT		
Benzo(k)fluoranthene	~	~	5.0	~	~	2	NT	NT	NT	NT	NT	NT		
Chrysene	~	~	48	~	~	11	NT	NT	NT	NT	NT	NT		
Dibenz(a,h)anthracene	~	~	5.0	~	~	2	NT	NT	NT	NT	NT	NT		
Fluoranthene	~	~	2,800	~	~	2,800	NT	NT	NT	NT	NT	NT		
Fluorene	~	~	2,800	~	~	2,800	NT	NT	NT	NT	NT	NT		
Indeno(1,2,3-cd)pyrene	~	~	5.0	~	~	2	NT	NT	NT	NT	NT	NT		
Naphthalene	~	~	490	~	~	140	NT	NT	NT	NT	NT	NT		
Phenanthrene	~	~	2,000	~	~	3,500	NT	NT	NT	NT	NT	NT		
Pyrene	~	~	2,000	~	~	2,100	NT	NT	NT	NT	NT	NT		
<b>Percent Solids (percent) (%)</b>														
Solids_total	~	~	~	~	~	~	86.3	87.4	86.4	91.3	86.4	NT		

Notes:

1. NT = Not tested.
2. NE = Not applicable
3. ~ = No Standard available
4. A bold outlined cell indicates that the mininum laboratory reporting limit exceeds one or more of the regulatory criteria.
5. A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:  
† Value exceeds Industrial/Commercial Direct Exposure Criteria  
+ Value exceeds Residential Direct Exposure Criteria  
\* Value exceeds Groundwater Class B Pollutant Mobility Criteria
6. RSR criteria are in same units as analyte.
7. Results are only compared to existing CT RSRs. No exceedances to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only.  
A summary of exceedance changes due to the revised RSRs is provided in Table 7.
8. Detections and select non detections are shown on this table. For complete results see laboratory reports.  
U = the compound was analyzed for, but was not detected at the associated value due to blank contamination or variance from other quality control limits.  
J = the associated value is an estimated quantity. The reported result is qualitatively accurate but quantitatively imprecise.  
UJ = the compound was analyzed for, but was not detected, and the associated value is an estimated value due to the variance from quality control limits.

Appendix G  
Summary of Phase II ESA Groundwater Sample Analytical Results  
Progressive Plating Technologies  
80 Hastings Street  
Bridgeport, CT  
AECOM Environment

Parameter	Existing CT RSR Criteria			Proposed CT RSR Criteria			SAMPLING LOCATION		
	I/C VC	RES VC	SWPC	I/C VC	RES VC	SWPC	MW	MW DUP	TRIP BLANK
Sampling Date							9/23/08	9/23/08	9/23/08
Sample Depth							NA	NA	NA
Laboratory Report Number							LIMT-19963	LIMT-19963	LIMT-19963
<b>6020 h2o 14rcp (ug/L)</b>									
Antimony	~	~	86000	~	~	1,900.0	20.9	17.0	NT
Arsenic	~	~	4	~	~	5.0	4.32*	3.80	NT
Barium	~	~	~	~	~	2,200	<250	<250	NT
Beryllium	~	~	4	~	~	36.0	<2.00	<2.00	NT
Cadmium	~	~	6	~	~	1.5	1000*	931*	NT
Chromium, trivalent	~	~	1200	~	~	~	NT	NT	NT
Chromium, hexavalent	~	~	110	~	~	110.0	NT	NT	NT
Chromium	~	~	~	~	~	420.0	424	381	NT
Copper	~	~	48	~	~	50.0	1040*	862*	NT
Lead	~	~	52	~	~	12.0	254*	179*	NT
Nickel	~	~	880	~	~	7.7	584	514	NT
Selenium	~	~	50	~	~	290.0	<25.0	<25.0	NT
Silver	~	~	12	~	~	50.0	2.99 J	2.52 J	NT
Thallium	~	~	63	~	~	10.0	1.18	<1.00	NT
Vanadium	~	~	~	~	~	148.0	<25.0	<25.0	NT
Zinc	~	~	123	~	~	650.0	1420* J	1210* J	NT
<b>8260 water (ug/l)</b>									
Acetone	50,000	50,000	~	50000	50000	10,000.0	<50.0	<50.0	<5.0
Acrylonitrile	~	~	20.0	93.6	2.4	20	<20.0	<20.0	<2.0
tert-Amylmethyl Ether	~	~	~	~	~	~	<5.0	<5.0	<0.5
Benzene	530	130	710	304	125	623	<5.0	<5.0	<0.5
Bromobenzene	~	~	~	~	~	~	<5.0	<5.0	<0.5
Bromochloromethane	~	~	~	~	~	~	<5.0	<5.0	<0.5
Bromodichloromethane	73.0	2.3	~	80	2	1394	<5.0	<5.0	<0.5
Bromoform	2,300	75.0	10,800	~	~	1240	<10.0	<10.0	<1.0
Bromomethane	~	~	~	389	32	0.5	<20.0	<20.0	<2.0
2-Butanone (MEK)	50,000	50,000	~	50000	50000	10000	<20.0	<20.0	<2.0
tert-Butyl Alcohol	~	~	~	~	~	~	<50.0	<50.0	<5.0
n-Butylbenzene	21,000	1,500	~	17780	1295	10	<5.0	<5.0	<0.5
sec-Butylbenzene	20,000	1,500	~	16143	1175	10	<5.0	<5.0	<0.5
tert-Butylbenzene	~	~	~	~	~	10	<5.0	<5.0	<0.5
tert-Butylethyl Ether	~	~	~	~	~	~	<5.0	<5.0	<0.5
Carbon Disulfide	~	~	~	~	~	150	<5.0	<5.0	<0.5
Carbon Tetrachloride	14.0	5.3	132	13.7	5.6	133	<5.0	<5.0	<0.5
Chlorobenzene	23,000	1,800	420,000	26684	2166	470	<5.0	<5.0	<0.5
Chlorodibromomethane	~	~	1,020	~	~	~	<5.0	<5.0	<0.5
Chloroethane	29,000	12,000	~	28878	11828	10000	<10.0	<10.0	<1.0
Chloroform	62.0	26.0	14,100	1195	99	1400	<5.0	<5.0	<0.5
Chloromethane	5,500	390	~	1846	146	10000	<5.0	<5.0	<0.5
2-Chlorotoluene	~	~	~	2426	200	10000	<5.0	<5.0	<0.5
4-Chlorotoluene	~	~	~	2158	178	70	<5.0	<5.0	<0.5
1,2-Dibromo-3-Chloropropane	~	~	~	~	~	~	<10.0	<10.0	<1.0
1,2-Dibromoethane	11.0	0.30	~	~	~	~	<5.00	<5.00	<0.50
Dibromomethane	~	~	~	~	~	~	<5.0	<5.0	<0.5
1,2-Dichlorobenzene	50,000	5,100	170,000	50000	5579	230	<5.0	<5.0	<0.5
1,3-Dichlorobenzene	50,000	4,300	26,000	1428	119	220	<5.0	<5.0	<0.5
1,4-Dichlorobenzene	3,400	1,400	26,000	3585	1489	94	<5.0	<5.0	<0.5
trans-1,4-Dichloro-2-Butene	~	~	~	~	~	~	<10.0	<10.0	<1.0
Dichlorodifluoromethane	1,200	91.0	~	1240	101	10000	<5.0	<5.0	<0.5
1,1-Dichloroethane	41,000	3,000	~	9452	762	4100	<5.0	<5.0	<0.5
1,2-Dichloroethane	68.0	6.5	2,970	63	6	2967	<5.0	<5.0	<0.5
1,1-Dichloroethylene	920	190	96.0	1464	117	2100	<5.0	<5.0	<0.5
cis-1,2-Dichloroethylene	11,000	830	~	11472	928	6200	<5.0	<5.0	<0.5
trans-1,2-Dichloroethylene	13,000	1,000	~	6673	536	5600	<5.0	<5.0	<0.5

**Appendix G**  
**Summary of Phase II ESA Groundwater Sample Analytical Results**  
**Progressive Plating Technologies**  
**80 Hastings Street**  
**Bridgeport, CT**  
**AECOM Environment**

Parameter	Existing CT RSR Criteria			Proposed CT RSR Criteria			SAMPLING LOCATION		
	I/C VC	RES VC	SWPC	I/C VC	RES VC	SWPC	MW	MW DUP	TRIP BLANK
Sampling Date							9/23/08	9/23/08	9/23/08
Sample Depth							NA	NA	NA
Laboratory Report Number							LIMIT-19963	LIMIT-19963	LIMIT-19963
1,2-Dichloropropane	58.0	7.4	~	110	8.5	2195	<5.0	<5.0	<0.5
1,3-Dichloropropane	~	~	~	~	~	~	<5.0	<5.0	<0.5
2,2-Dichloropropane	~	~	~	~	~	~	<5.0	<5.0	<0.5
1,1-Dichloropropene	~	~	~	~	~	~	<5.0	<5.0	<0.5
cis-1,3-Dichloropropene	360	11.0	34,000	243	5	17	<10.0	<10.0	<1.0
trans-1,3-Dichloropropene	360	11.0	34,000	243	5	17	<10.0	<10.0	<1.0
Diethyl Ether	~	~	~	~	~	~	<5.0	<5.0	<0.5
Diisopropyl Ether	~	~	~	~	~	~	<5.0	<5.0	<0.5
1,4-Dioxane	~	~	~	~	~	~	<500 UJ	<500 UJ	<50.0 UJ
Ethyl Benzene	36,000	2,700	580,000	21915	1763	610	<5.0	<5.0	<0.5
Hexachlorobutadiene	~	~	~	~	~	~	<4.0	<4.0	<0.4
2-Hexanone	~	~	~	~	~	~	<20.0	<20.0	<2.0
Isopropylbenzene	6,800	2,800	~	2193	898	210	<5.0	<5.0	<0.5
p-Isopropyltoluene	22,000	1,600	~	~	~	165	<5.0	<5.0	<0.5
MTBE	50,000	21,000	~	50000	22013	10000	<5.0	<5.0	<0.5
Methylene Chloride	2,200	160	48,000	2171	159	10000	<5.0	<5.0	3.7
MIBK	50,000	13,000	~	50000	50000	10000	<20.0	<20.0	<2.0
Naphthalene	~	~	~	~	~	~	<10.0	<10.0	<1.0
n-Propylbenzene	~	~	~	~	~	~	<5.0	<5.0	<0.5
Styrene	42,000	3,100	~	42853	3473	240	<10.0	<10.0	<1.0
1,1,1,2-Tetrachloroethane	64.0	2.0	~	148	4	850	<10.0	<10.0	<1.0
1,1,2,2-Tetrachloroethane	54.0	1.8	110	39	1.4	324	<5.0	<5.0	<0.5
Tetrachloroethylene	810	340	88.0	200	82	504	<5.0	<5.0	<0.5
Tetrahydrofuran	~	~	~	5722	493	10000	<50.0	<50.0	<5.0
Toluene	41,000	7,100	4,000,000	41584	5876	620	<5.0	<5.0	<0.5
1,2,3-Trichlorobenzene	~	~	~	~	~	~	<5.0	<5.0	<0.5
1,2,4-Trichlorobenzene	~	~	~	1546	122	50	<5.0	<5.0	<0.5
1,1,1-Trichloroethane	16,000	6,500	62,000	20439	2541	760	<5.0	<5.0	<0.5
1,1,2-Trichloroethane	2,900	220	1,260	126	10.7	1263	<5.0	<5.0	<0.5
Trichloroethylene	67.0	27.0	2,340	63	26	343	<5.0	<5.0	<0.5
Trichlorofluoromethane	4,200	1,300	~	4263	1739	10000	<5.0	<5.0	<0.5
1,2,3-Trichloropropane	~	~	~	~	~	~	<5.0	<5.0	<0.5
1,1,2-Trichloro-1,2,2-Trifluoroethane	~	~	~	812	331	10000	<5.0	<5.0	<0.5
1,2,4-Trimethylbenzene	4,800	360	~	1485	122	160	<5.0	<5.0	<0.5
1,3,5-Trimethylbenzene	3,900	280	~	1167	96	260	<5.0	<5.0	<0.5
Vinyl Chloride	52.0	1.6	15,800	24.4	0.6	385	<5.0	<5.0	<0.5
m + p Xylene	48,000	8,700	~	25558	2052	270	<10.0	<10.0	<1.0
o-Xylene	48,000	8,700	~	25558	2052	270	<5.0	<5.0	<0.5
<b>Cyanide-total (mg/l)</b>									
Cyanide	~	~	0.052	~	~	.052	<0.010*	0.6*	NT
<b>hg (mg/l) wet (mg/l)</b>									
Mercury	~	~	0.00040	~	~	.0077	0.00020	0.00019	NT

**Notes:**

1. NT = Not tested.
2. ~ = No Standard available
3. A bold outlined cell indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.
4. A shaded cell indicates value is in exceedence of a CT Remediation Standard Regulation. Specific exceedences are indicated as follows:  
+ Value exceeds Volatilization Criteria  
\* Value exceeds Surface Water Protection Criteria
5. I/C VC = industrial/commercial volatilization criteria, RES VC = residential volatilization criteria, SWPC = surface water protection criteria
6. RSR criteria are in same units as analyte.
7. Results are only compared to existing CT RSRs. No exceedences to revised CT RSRs are called out. Revised CT RSRs shown for informational purposes only.  
A summary of exceedance changes due to the revised RSRs is provided in Table 7.

U = the compound was analyzed for, but was not detected at the associated value due to blank contamination or variance from other quality control limits.

J = the associated value is an estimated quantity. The reported result is qualitatively accurate but quantitatively imprecise.

UJ = the compound was analyzed for, but was not detected, and the associated value is an estimated value due to the variance from quality control limits.

# **CALCULATING THE 95% UPPER CONFIDENCE LEVEL (UCL)**

## **STATEMENT OF PURPOSE**

The confidence level is a tool for acknowledging uncertainties and variability within an environmental data set without presenting an unacceptable risk to human health or the environment. In environmental studies, the uncertainties are commonly due to limited sampling data. The 95% upper confidence level defines a value that equals or exceeds the true mean 95% of the time. The RSRs allow for the use, in some instances, of this statistical method to demonstrate compliance with the Direct Exposure Criteria (DEC) and/or the Pollutant Mobility Criteria (PMC). *This statistical method can only be used when no single sample concentration exceeds twice the applicable concentration.*

## **DATA COLLECTION**

A sufficient number of samples must be collected to adequately characterize each area of concern. The Department expects at least 20 samples for each release area. Also the samples must be collected from the same stratigraphic unit or area of concern. For instance, if soil contamination is consistently found at the water table, at a high organic content layer, or at an area of lower permeability, then that stratigraphic unit should be subject to sampling and statistical analysis. The 95% UCL is not intended to average concentrations across a site or release area without regard to contaminant distribution.

When laboratory analyses for a sample indicate that the substance of concern is not detected above the method detection limit, one-half of the detection limit should be used for that sample concentration value when calculating the 95% UCL.

## **DETERMINING NORMALITY**

The first step in the statistical analysis is to determine normality. Determining the distribution of the data is necessary for selecting the proper equations for the calculation of the 95% UCL. The Department recommends the W-test, but other appropriate tests for normality may be used. If sufficient data exists, a normal probability plot of the data (either raw or transformed with the natural logarithm function) may be sufficient to determine the normality of the data set. If the normality of the data set is not obvious from the normal probability plot, alternative methods for the normality analysis must be utilized.

## LOG NORMALLY DISTRIBUTED DATA SETS

The following steps are taken to calculate the 95% UCL for log normally distributed data.

- Transform the data set by calculating the natural logarithm of each data point ( $\ln(x)$ ).
- Calculate the standard deviation of the transformed data ( $s$ ).
- Determine the H-statistic for computing a one-sided 95% upper confidence level on a lognormal mean – interpolating where necessary (Gilbert, 1987 or other statistics reference).
- Calculate the 95% UCL utilizing the following equation:

$$UCL = e^{\left( \bar{y} + 0.5s^2 + SH/\sqrt{(n-1)} \right)}$$

Where:  $\bar{y}$  = mean of the transformed data.

$s$  = standard deviation of transformed data  $s = \frac{n(\sum y^2) - (\sum y)^2}{n(n-1)}$

$H$  = H-statistic (from reference tables in Gilbert or other statistics reference).

$n$  = number of samples.

$e$  = constant (base of the natural log = 2.718)

### EXAMPLE

#### LOG NORMALLY DISTRIBUTED DATA

Data set for hexavalent chromium (mg/kg) in soils: 10, 13, 180, 97, 85, 101, 125, 77, 27, 13, 15, 100, 65, 32, 14. The residential and industrial/commercial DEC is 100 mg/kg.

1. Check that each sample concentrations is less than twice the applicable criteria.
2. Check the normality of the data. Assume these data are log normally distributed.
3. Transform the data by taking the natural log of the data ( $\ln(x)$ ).

x (mg/kg)	ln(x)=y		x (mg/kg)	ln(x)=y
10	2.30		13	2.56
180	5.19		97	4.57
85	4.44		101	4.62
125	4.83		77	4.34
27	3.30		13	2.56
15	2.71		100	4.61
65	4.17		32	3.47
14	2.64			

4. Calculate the UCL using the transformed data.

- Mean of transformed data:  $\bar{y} = 3.76$ .
- Standard deviation of transformed data:  $s = \frac{n(\sum y^2) - (\sum y)^2}{n(n-1)} = 0.997$
- H-statistic (from reference tables)  $H = 2.744$  (based on 95%).
- Number of samples  $n = 15$ .

Plugging into the UCL equation:

$$\bullet \text{ UCL} = e^{(3.7 + 0.5(0.997)^2 + 0.997(2.744)/\sqrt{(15-1)})} = 146 \text{ mg/kg}$$

Therefore, the calculated 95% upper confidence level of 146 mg/kg is greater than the residential and industrial/commercial DEC of 100 mg/kg.

## NORMALLY DISTRIBUTED DATA SETS

Environmental data sets are occasionally normally distributed. If a data set is normally distributed then the following steps are taken to calculate the 95% UCL.

- Calculate the arithmetic mean of the data.
- Calculate the standard deviation of the data.
- Determine the one-tailed t-statistic where  $1 - \alpha = 0.95$  and  $\alpha/2 = 0.025$  (from reference tables in Gilbert or other statistic reference).
- Calculate the UCL.

$$\text{UCL} = \bar{x} + t(s/\sqrt{n})$$

Where:  $\bar{x}$  = mean of untransformed data

$$s = \text{standard deviation of untransformed data } s = \frac{n(\sum x^2) - (\sum x)^2}{n(n-1)}$$

$t$  = student-t statistic

$n$  = number of samples

## EXAMPLE

### NORMALLY DISTRIBUTED DATA

Data for carbon tetrachloride in soils (in mg/kg) are: 0.7, 0.5, 0.3, 0.35, 0.9, 1.0, 1.1, 0.7, 1.1, 0.8, 0.9, 0.4, 0.45, 0.2, 1.2. The GB PMC is 1 mg/kg.

1. Check that each sample concentrations is less than twice the applicable criteria.

2. Check the normality of the data. Assume these data are normally distributed.

3. Calculate the UCL.

- Mean of the data:  $\bar{x} = 0.71$ .
- Standard deviation of the data set:  $s = 0.32$
- Student-t statistic (from reference tables):  $t(0.025) = 2.145$
- Number of samples:  $n = 15$

Plugging these numbers into the UCL equation for normally distributed data sets:

$$\text{UCL} = 0.71 + 2.145 \left( 0.32 / \sqrt{15} \right) = \mathbf{0.89 \text{ mg/kg}}$$

Therefore the calculated 95% upper confidence level of 0.89 mg/kg is less than the GB PMC of 1 mg/kg.

## REPORTING

Include all calculation sheets, including any graphing or calculations performed to determine normality, in reports submitted to the Department.

## REFERENCE

Gilbert, Richard O., 1987. *Statistical Methods for Environmental Pollution Monitoring*. Van Nostrand Reinhold, New York.

U.S. EPA, Supplemental Guidance to RAGS: Calculating the Concentration Term. EPA Publication 9285.7-081, May 1992.



	SAMPLE LOCATION																											
	1	2	12	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	34	35	36			
Sample Date	9/8/2008	9/8/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/22/2008	12/23/2008	12/23/2008	12/23/2008	12/23/2008			
Metals (15pp) slcp (mg/kg dry wt)																												
Arsenic	8.53	14.5	7.74	8.91	1.43	10.2	5.10	6.29	6.17	5.31	8.92	6.95	7.83	6.31	6.14	7.95	7.32	16.80	8.57	6.21	6.22	6.50	6.635	7.72	5.51			

Note:  
Higher value of duplicate samples used for UCL analysis.  
SB-34, 35, and 36 each analyzed for arsenic at two depth intervals. The average of each was used for UCL analysis.  
Half of the non-detect value (for SB-15) was used for UCL analysis.

[illegible]

						or 95% Modified-t UCL					8.638